

Monitoring report

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Centre for Gender & Science



# The Position of Women in Czech Science 2021 Monitoring Report

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#### **MAIN FINDINGS**

## **Employees in research and development**

- The number of research and development employees is increasing overall, including in the individual professions of researchers, technicians and other R&D occupations.
  - o In 2021, 121 640 employees (i.e. 84 671 full-time equivalents FTE) worked in R&D in total, of whom 37 347 were women.
- Men are more numerous in all research and development professions, and their share has a growing tendency.
- Among all R&D employees, the representation of women was 30.7% in 2021 (28.5% in FTEs):
  - o Among researchers, the proportion was 27.1% (24.0% in FTEs).
  - Among technicians, the proportion was 29.7% (28.2% in FTEs).
  - o Among other professions, women represented 48.2% (50.0% in FTEs).

#### Researchers

- Researchers represented 57.2% of all R&D employees in 2021. In 2021, the total number of researchers was 69 536 (i.e. 48 080 in FTEs).
- The representation of women among researchers was approximately a quarter in 2021 27.1% (i.e. 24.0% in FTEs).
- The representation of women among researchers had a decreasing tendency from 2005–2018 (the minimum was reached in 2018 26.6%).

# The ideal typical career path in research

- In 2021:
  - 99 490 persons studied at the master's level. Of these, 60 524 (i.e. 60.8%) were women and 38 966 (i.e. 39.2%) were men.
  - o 20 826 persons studied at the doctoral level. Of these, 9 278 (i.e. 44.6%) were women and 11 548 (i.e. 55.4%) were men.
- While the representation of women among those studying in master's programmes has long exceeded the representation of men, the representation of women among students of doctoral programs likewise shows an upward trend. Nevertheless, men generally predominate among students and graduates of doctoral programs and, above all, have significantly predominated among researchers over a long period of time.
- Looking at the situation in individual fields, it is evident that:
  - o In natural, agricultural, medical and social sciences and the humanities, women unequivocally predominate at the master's level. At the doctoral level, the proportion of women to men is relatively equal (i.e. men slightly predominate in natural and agricultural sciences, while women predominate in medical and social sciences and the humanities). However, in all mentioned fields, the proportion of women among doctoral graduates is significantly higher than among researchers.
  - On the notional path from study to the scientific profession, we can find the greatest loss of female representation in the natural sciences at the transition between graduating from doctoral studies (25 percentage points) and research itself, while in agricultural, medical and social sciences and the humanities, this happens before women enter doctoral studies. The losses in female representation here are between 15–20 percentage points.
  - Technical sciences have the lowest representation of women among all the aforementioned scientific fields, representation which further decreases with every academic degree. Similarly to the natural sciences, the greatest loss in the proportion of women is at the transition between completing a PhD and doing research itself.

# Researchers by field

- Traditionally, technical sciences (36.2% of researchers in the Czech Republic) and natural sciences (34.1% of researchers in the Czech Republic) are the most important in terms of the number of researchers.
  - The representation of women in technical sciences was only 14.4% in 2021 (12.4% in FTEs). The minimum during the monitored period 2005–2021 was reached in 2012 12.7%.
  - In the natural sciences, the representation of women has been around one quarter for a long time 24.2% in 2021 (23.7% in FTEs).
- The most equal representation of women has long been in the medical sciences in 2021, women represented 48.0% of researchers (50.7% in FTEs).
- In the agricultural sciences, women represented 47.6% (49.8% per FTEs) of researchers in 2021, 44.0% (43.1% per FTEs) in the social sciences and 43.0% (40.7% per FTEs) in the humanities.
- In the case of agricultural, medical and, to a lesser extent, social sciences and the humanities, there has been an increase in the proportion of women researchers over the last 15 years.

## Researchers by sectors of research work

- The largest employers of researchers in the Czech Republic are the business and higher education sectors. In 2021, they employed more than 80% of all researchers (43.5% in the business sector and 40.1% in the higher education sector). In the higher education sector, women represented 35.6% of researchers and in the business sector only 14.1%.
  - The lowest percentage of women among business sector employers worked in private enterprises under foreign control (only 12.4%).
- In public and state universities, 34.4% of researchers were women.
- Overall, 40.7% of female researchers worked in the government sector, with the Academy of Sciences having the lowest share in terms of employers (36.3%). The representation of female researchers in 2021 was the highest in the non-profit sector (45.9%). However, as an employer it is essentially marginal, employing only 0.4% of researchers in the Czech Republic.

# **Academic employees**

- In 2021, there were 18 724 full-time equivalent (FTEs) academic employees, of which 36.2% were women.
- Women predominate in the lowest academic FTE positions lecturer (55.4%) and assistant (47.3%).
- However, the proportion of women among academics with the highest qualification levels is low:
  - o 15.7% of professors were women;
  - 26.8% of associate professors were women.
- The highest representation of women among academics in 2021 was found in the social sciences (45.4%), medical sciences (44.4%) and humanities (42.5%).
- The lowest representation of women in academic positions in 2021 was in the natural (25.5%) and technical sciences (22.5%).
- The gender pay gap increased between 2011 and 2021 for all qualification levels except assistants. For the most senior academic positions, this was specifically:
  - o 3.7 percentage points against women as associate professors and
  - o 2.6 percentage points against women as professors.
- According to a forecast based on development occurring between 2010 and 2021, parity for professors will not be reached until 2329.
- In the case of associate professors, parity will be reached in 2170 based on the forecast.

## **Decision-making positions**

- Decision-making in science has long been dominated by men. In 2021, the total representation of women in management positions within research, university and other R&D institutions reached 13.5% (the Academy of Sciences, grant agencies, the Council of Universities, etc.).
- In the decision-making, strategic and control bodies of these institutions, the representation of women was 22.6%. In advisory bodies, their share reached 25.7%.
- Between 2011 and 2021, the representation of women was:
  - o In management, around 10–11%.
  - o In decision-making, strategic and control bodies we can see a downward trend a decrease of 3.8 percentage points.
  - o In advisory bodies, we can see an upward trend until 2015 (when women represented 30.8%) then a decline of 7.5 percentage points until 2021.

## Specialists in science and technology

- In 2020, 148.3 thousand specialists were employed in science and technology:
  - Men represented 72% of specialists;
  - Women represented 28% of specialists.
- Among specialists, we can observe differences in average gross monthly wages in 2021, both by gender and by age:
  - the largest gender gap was found in the 35–44 age category 14.1%;
  - the lowest gender gap was in the 30–34 age category 11.6%.

## Patent application

- The share of female patent holders is low in the long term, but it shows a slightly positive trend:
  - In 2005, 5.3% of patents were granted to women;
  - o In 2021, 8.7% of patents were granted to women.
- Between 2005 and 2021, women were granted the most patents in 2019 11.5%.
- Within the research sector, the following changes in the number of patents granted to women can be observed over the period under review:
  - Public universities:

- o In 2005, 6.9% of patents were granted to women;
- o In 2021, 12.1% of patents were granted to women.
- Public research institutions:
  - o In 2005, women were granted 13.3% of patents;
  - o In 2021, women were granted 20.0% of patents.
- Private sector:
  - o In 2005, 4.6% of patents were granted to women;
  - o In 2021, women were granted 5.9% of patents.

# International comparison

- Representation of female researchers in 2020 among EU Member States:
  - The countries closet to parity are the Baltic Republics Latvia 50.0%, Lithuania 49.1% and Estonia 42.5%.
  - On the contrary, the largest disproportions in the representation of women and men can be found in countries such as Luxembourg 27.4%, the Czech Republic 27.6% or the Netherlands 27.9%.
- Over the course of 10 years, the situation among individual countries has not changed significantly the Czech Republic worsened by 0.5 percentage points between 2010 and 2020.

## NOTE ON DATA SELECTION, DATA AVAILABILITY AND ACCESS TO DATA PROCESSING

The data used in this publication are mainly based on the interim statistical reports of the Ministry of Education, Youth and Sports (in subsequent sections of the paper, it's referred to as MEYS) and data provided by the Czech Statistical Office (hereinafter referred to as the Czech Statistical Office), as well as on the annual reports of public research institutions and universities.

The aim of the present publication is to analyse the state of women's representation in science and research from the perspective of selected available indicators, both in their structural aspect and in terms of long-term temporal development. Due to frequently changing data collection methodologies or irregular collection of some indicators, only those indicators that are either comparable from a developmental perspective or that allow a relevant, albeit time-limited, perspective on the issue are used in the publication. In the second case, we point out such facts in the text of the publication itself.

For the purposes of the analyses published in this report, the key indicators primarily utilise the simple shares of women in the total sum of persons (HC) classified in the relevant group of individuals (or in the total sum of registered full-time equivalents, FTE). We are aware that in the case of such a "rough" indicator, subtle differences in the age structure between the male and female parts of the Czech population may be lost. However, within the economically active population, these differences are relatively small and therefore have only a minor effect on the indicator. For more analytically experienced readers, however, we still refer to selected results presented in the chapter on academics in universities.

In relation to the indicators used in this publication, we would also like to point out the following:

- Due to a change in data collection methodology (CSO), time series are available for developmental comparison of selected indicators primarily from 2005, although the oldest data are available from 2000, and some of the previous monitoring reports worked with them.
- The time series on students published by the Ministry of Education, Youth and Sports in the Statistical Yearbooks of Education are re-generated every year for their entire data series since 2001. Universities have the option of retrospectively adjusting the data on their numbers of students and graduates, which they do. The data generated in this year may therefore differ from data published in previous years and therefore in previous monitoring reports.

For the sake of clarity and to maintain comparability with the source, this publication adopts the terminology used in the field of statistics (data from the Czech Statistical Office and the Ministry of Education, Youth and Sports).

# Overview of abbreviations used

Acronym	Definition	Source
НС	Head Count. Physical counts: The head count as of 31 December of a given year indicates the number of persons involved in research and development (R&D), irrespective of the time spent on these activities.	CZSO: Methodological explanations, p. 10 (link: https://www.czso.cz/ documents/10180/20557417/10101113_metodika_ cela_+czpraha.pdf/ba12faa1-551d-4e3d-884c- e790e117390b?version=1.0)
FTE	Full-Time Equivalent: A unit to measure employed persons in a way that makes them comparable even if they work or study a different number of hours per week. The unit is obtained by comparing an employee's average number of hours worked to the average number of hours of a full-time worker. A full-time person is therefore counted as one FTE, while a part-time worker gets a score in proportion to the hours he or she works or studies.	CZSO: Methodological explanations, p. 10 (link: https://www.czso.cz/ documents/10180/20557417/10101113_metodika_ cela_+czpraha.pdf/ba12faa1-551d-4e3d-884c- e790e117390b?version=1.0)
GPG	Gender pay gap: The difference in average gross hourly earnings between women and men. It is based on salaries paid directly to employees before income tax and social security contributions are deducted.	Rovnaodmena.cz (link: https://rovnaodmena.cz/ rovne-odmenovani/gender-pay-gap/)

## **EMPLOYEES IN RESEARCH AND DEVELOPMENT**

According to the Czech Statistical Office (CZSO), a total of 121 640 people worked in research and development in 2021. The majority (57.2%) were researchers, a third (29.4%) were technicians and the remaining 13.4% included other workers (see Figure 1).

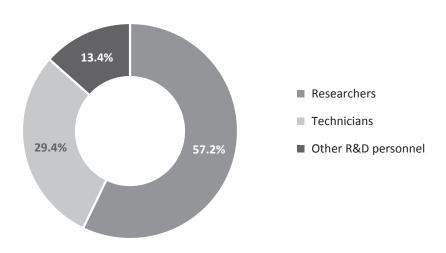


Figure 1: Proportion (%) of employees in R&D in 2021, by discipline (HC)1

Source: CZSO, Research and Development Indicators 2005–2021.

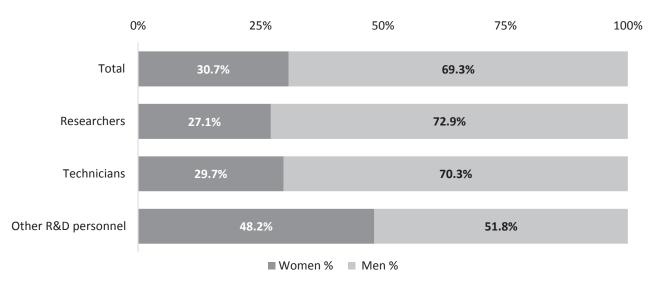
The total number of employees in R&D almost doubled between 2005 and 2021 (there were 65 379 employees in 2005). A similar increase also occurred within the individual employee groups (research, technicians and other), where the number of employees also doubled during the period.

However, the proportion of women has not changed much (only in the order of tenths per year), and they are still under-represented compared to men in all areas (see Figure 2). Between 2005–2021, the representation of women in R&D has gradually decreased. From a baseline of 35.0% in 2005, their representation fell to the mentioned 30.7% in 2021, while men represented 69.3% of employees in 2021.

Relative parity can be observed in the other workers category, where women represented 48.2% of employees in 2021 and men 51.8%. The lowest representation of women (27.1%) was in the category of researchers (this is the largest category with 69 536 employees in 2021). Among technicians, women represented 29.7% of employees in 2021 (see Figure 2).

<sup>1</sup> For data see Table 1

Figure 2: Proportion (%) of employees in R&D in 2021, by sex and discipline (HC)<sup>2</sup>



Source: CZSO, Research and Development Indicators 2005–2021.

<sup>2</sup> For data see Table 1

#### Researchers

The representation of women among researchers ranged from 27–29% between 2005 and 2021 (see Figure 3), and we can see that this was not a linear trend, but rather a kind of oscillation around these values. On the timeline (see Figure 3, black curve), we can see that deviations of a tenth of a percent are common over the years, but nowhere is there a significant and/or sustained improvement.

Since 2005, the total number of people working as researchers has increased by 31 994 to 69 536 (i.e. 48 080 FTE). While the number of women has increased over the same period from 10 827 in 2005 to 18 845 in 2021 (i.e. 11 524 in FTEs), the number of men has increased from 26 716 in 2005 to 50 691 in 2021 (i.e. 36 556 in FTEs)<sup>3</sup> (see Figure 3).

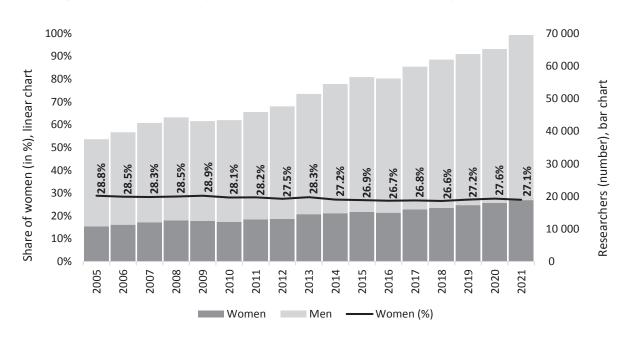


Figure 3: Compound annual growth rate (%) in the number of researchers, by sex, 2005–2021 (HC)<sup>4</sup>

Source: CZSO, Research and Development Indicators.

<sup>3</sup> For data see Table 2

<sup>4</sup> For data see Table 1

#### THE IDEAL TYPICAL CAREER PATH IN RESEARCH

# **University studies**

In this chapter, we will focus on gender aspects of master's and doctoral education in the Czech Republic, their current status and their long-term development. The data source is statistics from the Ministry of Education, Youth and Sports (MEYS), which publishes annual statistics on indicators of public and private universities based on the ISCED-F<sup>5</sup> classification of fields of study. For the purpose of the analysis, students and graduates of all nationalities, irrespective of university type (public, private) or type of study (full-time, remote, combined), were considered.

In 2021, there were 99 490 students studying for a master's degree in the Czech Republic, of which 60 524 were female (i.e. 60.8%) and 38 966 were male (i.e. 39.2%). From 2005 to 2010, the number of students slightly increased (with a peak of 124 105 students in 2010). Since 2011, we can observe a decreasing trend in the number of Master's students. The proportion of women among Master's students is around 60% and has long outnumbered men, with no significant long-term change.

There is also a long-term predominance of women among graduates of master's degree studies. Of the 25 387 master's graduates in 2021, 15 229 (i.e. 60.0%) were women and 10 158 (i.e. 40.0%) were men. Since 2005, there has been an increase of 5 percentage points in female graduates (from 55.1% in 2005 to 60.0% in 2021), while there has been a decrease of 5 percentage points in male graduates (from 44.9% in 2005 to 40.0% in 2021).<sup>6</sup>

In 2021, 20 826 persons were enrolled in doctoral studies, of whom 9 278 were women (44.6%) and 11 548 were men (i.e. 55.4%). The number of students in doctoral programmes increased between 2005 and 2011. The higher number of women contributed significantly to this increase. While in 2005 the representation of women was 38.5%, in 2011 their share was already 43.3% (i.e. an increase of 5 percentage points). After 2011, this increase stopped and the proportion of women students stabilised at 44–45%.

As with students, there is a higher proportion of men than women among doctoral graduates. In 2021, 894 women (i.e. 43.8%) and 1 145 men (i.e. 56.2%) received a doctorate. The share of female graduates increased by approximately 9 percentage points between 2005 and 2021 (from 35.0% in 2005 to 43.8% in 2021), while the proportion of men decreased from 65.0% in 2005 to 56.2% in 2021.<sup>7</sup>

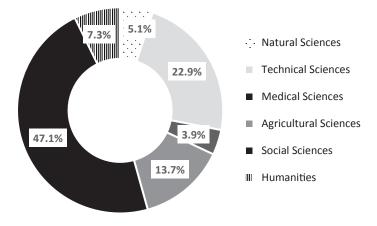


Figure 4: Proportion of master's graduates, by field, 2021

Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic.

In terms of fields of study, the highest proportion of graduates of master's programmes is in the social sciences (47.1%8). This is followed by technical sciences (22.9%9) and medical sciences graduates (13.7%10). The agricultural sciences account for the lowest proportion of graduates (3.9%11) in 2021 (see Figure 4).

If we look at the relevant indicators within individual groups of study fields, we can find significant differences in terms of the representation of women among graduates of master's studies (see Chart 5). Natural, agriculture, medical and social sciences and the humanities have an aboveparity representation of women. In contrast, the representation of women in technical sciences is well below 50% (31.7% in 2021) (see Figure 5).

MEYS: Classification of fields of education (CZ-ISCED-F 2013)

<sup>6</sup> For data see Table 3

<sup>7</sup> For data see Table 3

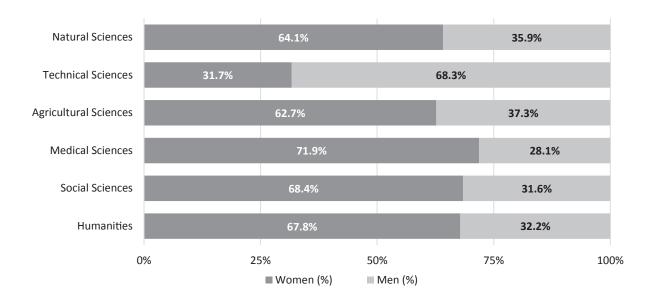
<sup>8</sup> For data see Table 8

<sup>9</sup> For data see Table 5

<sup>10</sup> For data see Table 7

<sup>11</sup> For data see Table 6

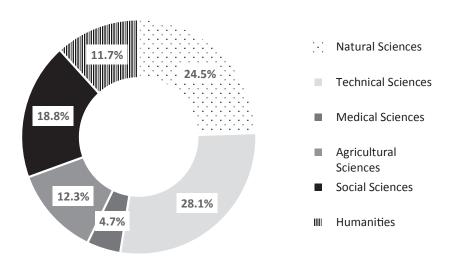
Figure 5: Proportion (%) of master's graduates, by sex and by field, 2021<sup>12</sup>



Source: Ministry of Education and Science — Statistics on performance indicators of public and private universities in the Czech Republic.

In the case of doctoral studies, the highest share of graduates is in the technical (28.1% in 2021) and natural sciences (24.5% in 2021). This is followed by the social sciences (18.8% in 2021) and humanities (11.7% in 2021). The smallest proportion of doctoral graduates was in agricultural sciences (4.7% in 2021) (see Figure 6).

Figure 6: Proportion of doctoral graduates, by field, 2021<sup>13</sup>



Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic.

With the exception of the technical and medical sciences, the representation of doctoral graduates by sex is relatively balanced (see Figure 7). In the case of the technical sciences, the representation of women remains well below 50% (in 2021 they represented 22.4% of graduates). In contrast, in the medical sciences, the representation of female graduates was 58.0% in 2021, while that of male graduates was 42.0%.

<sup>12</sup> For data see Tables 4–9

<sup>13</sup> For data see Tables 4–9

Natural 49.3% 50.7% Sciences Technical 22.4% 77.6% Sciences Agricultural 49.5% 50.5% Sciences Medical 58.0% 42.0% Sciences 52.9% Social Sciences 47.1% **Humanities** 52.3% 47.7% 100% 0% 25% 50% 75% ■ Women (%) ■ Men (%)

Figure 7: Proportion of doctoral graduates, by sex and by field, 2021<sup>14</sup>

Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic.

# From study to research

A typical academic career represents a cross-section of all the stages that an individual passes through on his or her academic journey, from entry to master's degree to the terminal position of researcher. Detailed series of analyses are presented in the sequence of Figures 8–14. In the following text, results are available for academic and career paths for all disciplines and fields of science, both overall and separately, taking into account the time development of the indicators from 2005–2021.

The basic form of a typical trajectory is shown in Figure 8. As we can observe, women predominate among those studying at the bachelor's and master's levels. The situation is similar among bachelor and master graduates. On the other hand, men predominate among doctoral students and graduates and among researchers.

The situation of female doctoral students has slightly improved during the period 2005–2021, but the rate of growth in their representation remains very slow. Between 2005 and 2021, the proportion of women studying doctoral programmes increased by 6.1 percentage points. The representation of female doctoral graduates has changed significantly over the period under review, increasing by 8.8 percentage points. The representation of women is thus coming closer and closer to parity over time, with women accounting for just under 45% in both of the above categories.

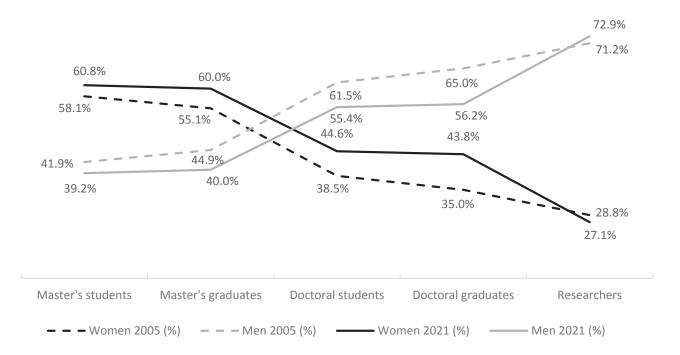
However, the data show that a relatively large proportion of female doctoral graduates are choosing not to pursue a career as a researcher — in 2021 the difference between female doctoral graduates and female researchers was 16.7 percentage points, while in 2005 this difference was 6.2 percentage points (see Figure 8). Thus, the representation of female researchers remains less than a third of the total category (see Figure 8).

Within master's programmes, there was an increase of 2.7 percentage points in the number of female students between 2005 and 2021, and a 4.8 percentage points increase in the number of female graduates. Women are represented by approximately 60% in each of the above two categories (see Figure 8).

Thus, claims referring to ideas of natural development—that over time the representation of women in science will gradually level off relative to men (primarily through their increasing share in higher education) —have not been proven over the long term.

<sup>14</sup> For data see Tables 4–9

Figure 8: Proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021, irrespective of discipline<sup>15</sup>



Source: Ministry of Education and Science — Statistics on performance indicators of public and private universities in the Czech Republic; CZSO — Research and Development Indicators.

The following graphs (9–14) show this situation in more detail by discipline and scientific field between 2005–2021.

In Figure 9 we can see the educational and career paths of people in the natural sciences. It shows that the gap in representation of women and men from the beginning of the academic career to the end is widening. At the beginning, this gap is to the disadvantage of men, and at the end—for researchers—it is to the disadvantage of women. At the doctoral level, on the other hand, gender representation in this field is currently equal (see Figure 9).

Between the monitored years 2005 and 2021, the highest increase in the natural sciences was among female graduates of master's programmes. There was a 10 percentage points increase in their share between the reference years (from 54.2% in 2005 to 64.1% in 2021). Furthermore, there was another increase among female doctoral graduates — by 8.3 percentage points between the monitored years (from 41.0% in 2005 to 49.3% in 2021) (see Figure 9). The share of those studying in master's programs also increased slightly (by 6.2 percentage points — from 55.0% in 2005 to 61.2% in 2021), as well as those studying in doctoral programs (a 4.7 percentage points increase).

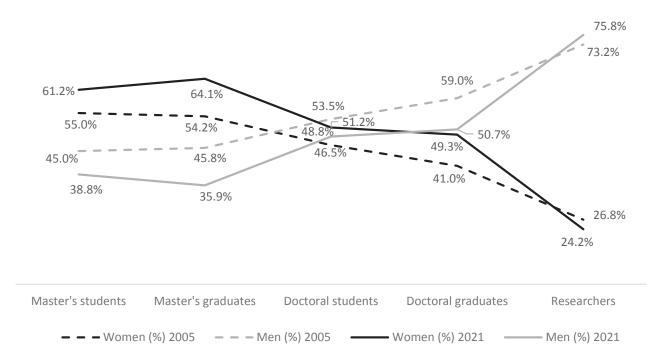
On the contrary, a small decrease of 2.5 percentage points occurred between 2005 and 2021 in the category of female researchers, going from 26.8% in 2005 to 24.2% in 2021.

We can observe a large loss in the representation of women between individual stages of the academic career, a loss which increased between 2005 and 2021 among graduates of master's programs and those studying doctoral programs. While in 2005 the decline in female representation between these two categories was 7.6 percentage points, in 2021 this decline had already reached 12.9 percentage points (see Chart 9).

It is characteristic for the natural sciences that a relatively large proportion of women who successfully complete their PhDs decide not to strengthen older generations of colleagues in research careers — the gap between female PhD graduates and female researchers was 25.1 percentage points in 2021 (up from 14.3 percentage points in 2005). This was the largest loss in women's pathways to research in this field and an indication of the failure to retain qualified women (see Figure 9)

<sup>15</sup> For data see Table 3

Figure 9: The natural sciences — the proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021<sup>16</sup>



Source: Ministry of Education and Science — Statistics on performance indicators of public and private universities in the Czech Republic; CZSO — Research and Development Indicators.

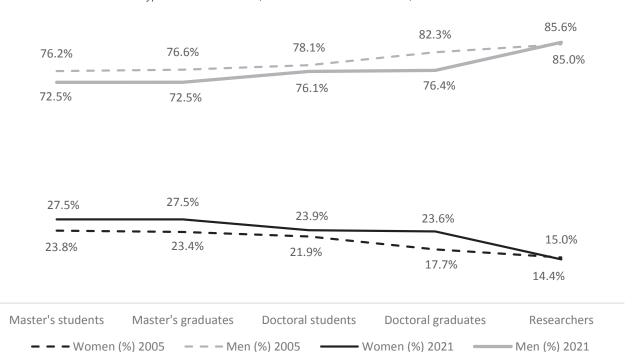
From the earliest stages, the technical sciences are the least well-represented in terms of women's ideal pathway to a scientific career. These fields have long suffered from inequality in the representation of women, whose numbers decline in each subsequent phase from studies to the scientific profession. However, the good news is that in all categories, with the exception of female researchers, there was an increase in female representation between 2005 and 2021. However, within all scientific fields, it is the technical sciences where the growth in the share of women is the slowest.

The highest increase—of 5.9 percentage points—can be observed among female graduates of doctoral programmes (see Chart 10). The representation of female master's degree students increased by 3.7 percentage points between the monitored years, while in the case of doctoral degrees there was an increase of 2.1 percentage points. A 4.1 percentage points increase in the share of women was achieved among graduates of master's degree programmes.

Similarly to the natural sciences, there is also a decline in the number of women pursuing doctoral studies in the technical sciences — women's representation fell by 3.5 percentage points in 2021 (in 2005 the difference was 1.5 percentage points). Losses can also be observed between female doctoral graduates and female researchers; where while in 2005 the decline was 2.6 percentage points, in 2021 it was already almost four times higher — 9.2 percentage points (see Figure 10).

<sup>16</sup> For data see Table 4

Figure 10: The technical sciences — the proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021<sup>17</sup>



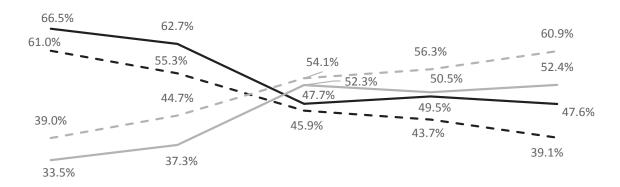
Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

Within agricultural sciences, there was an 8.5 percentage points increase in female researchers between 2005 and 2021 (from 39.1% women in 2005 to 47.6% in 2021). A non-negligible increase was also recorded among women studying in master's programs (up 5.5 percentage points) and among female graduates of doctoral programs (an increase of 5.8 percentage points) (see Chart 11).

Just as in the case of the natural and technical sciences, there are also losses of female students between individual study levels within the agricultural sciences. The highest loss, of 15 percentage points, was recorded in 2021 among female master's degree graduates and doctoral students (in 2005 the loss was 9.4 percentage points). On the contrary, the situation among female doctoral graduates and researchers improved between the monitored years. While in 2005 the difference here was 4.6 percentage points, in 2021 the difference was 1.9 percentage points (see Figure 11).

<sup>17</sup> For data see Table 5

Figure 11: The agricultural sciences — the proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021<sup>18</sup>





Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

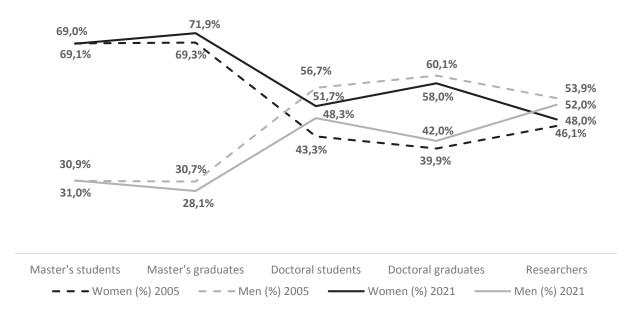
In the category of medical and pharmaceutical sciences, women represented a significant majority in both of the examined master's degree categories — women represented 69.0% of students and accounted for 71.9% of graduates in 2021. Compared to 2005, there was a slight increase of 2.6 percentage points for female graduates (see Figure 12). There was parity between doctoral students (where women accounted for 51.7%) and in the category of researchers (where women accounted for 48.0%). In the category of those studying doctoral programs, women slightly dominated, making up 58.0% of graduates.

The most significant increase in the share of women compared to 2005 was within two categories. In the case of those studying doctoral programmes, there was an increase of 8.4 percentage points; for female graduates of doctoral programmes, there was an 18.1 percentage points increase. (see Figure 12).

However, at the same time, there was a significant outflow of women among female PhD graduates and researchers in these sciences — a decline of 10 percentage points in 2021. But an even greater loss—20.2 percentage points in 2021—was recorded at the transition between a completed master's degree and PhD enrolment (see Figure 12). Compared to 2005, however, we can talk about a certain progress. In that year, there was a significant 26 percentage points outflow of women between graduates of master's programmes and those studying doctoral programmes (within all the examined fields, this is the highest drop among individual degrees of an ideally typical path).

<sup>18</sup> For data see Table 6

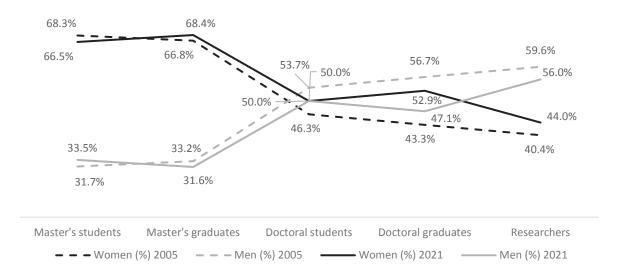
Figure 12: The medical sciences — the proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021<sup>19</sup>



Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

The social sciences also experienced changes between 2005 and 2021. Within the master's degree, the representation of female students slightly decreased, by 1.8 percentage points. Despite this slight decrease, women make up more than three-fifths of the enrolments in these programmes. Parity of representation is found at the doctoral level, with both female students (50.0%) and graduates (52.9%). This is partly because after graduating with a master's degree, a significant number of women decide not to continue with doctoral studies. Here, this drop was 18.4 percentage points in 2021 (compared to 20.5 percentage points in 2005). A significant loss of women can also be found at the transition between doctoral graduates and researchers. In 2021, the difference in the representation of women in these groups reached 8.9 percentage points (compared to 2.9 percentage points in 2005) (see Figure 13).

Figure 13: The social sciences — the proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021<sup>20</sup>



Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

<sup>19</sup> For data see Table 7

<sup>20</sup> For data see Table 8

Trends similar to those we have described in the social sciences can also be observed in the humanities. Within these scientific disciplines, women are also represented more than men at the master's degree level — by more than three-fifths (see Figure 14). There is parity representation at the doctoral degree level, both among students (52.5%) and graduates (52.3%). Within the humanities, too, in 2021 the largest outflow of women in the ideal typical pathway was at the stage after the master's degree and before the start of the doctoral degree — a drop of 15.3 percentage points. The good news is the slight increase that was recorded in the category of researchers — the representation of women increased here by 2.7 percentage points between 2005 and 2021. However, there has been a significant loss of women at the transition between the doctoral degree and the research career; in 2021 this loss was 9.3 percentage points, almost twice as much as in 2005, when the loss was 5.5 percentage points. An even higher decrease—15.3 percentage points—was recorded in 2021 among female master's and PhD graduates (in 2005, this loss was 12.5 percentage points) (see Figure 14).

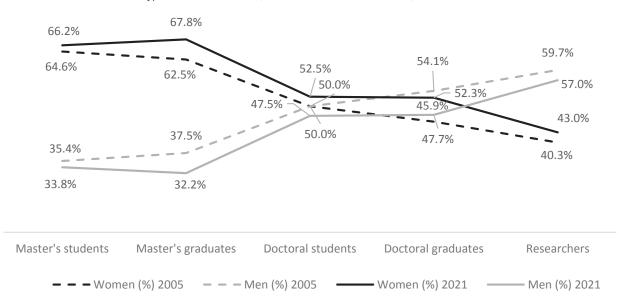


Figure 14: The humanities — the proportion (%) of men and women in a typical academic career, students and academic staff, 2005 vs. 2021<sup>21</sup>

Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

If we summarise the above findings about individual scientific disciplines, then we can say that women dominate in the master's degree (students and graduates) in all scientific fields, with the exception of the technical sciences. There is also a similar agreement across fields of study for doctoral degrees, both among students and graduates. Here, however, we can no longer talk about the predominance of women, but rather about parity representation. The representation of women in the position of researchers in agriculture, medicine, the social sciences and the humanities is relatively equal. In the natural sciences, women represent 24.2% of researchers, while in the technical sciences they represent only 14.4% of researchers (according to data for 2021). The technical sciences have long faced a very low representation of women at all levels of the scientific career, and the situation in this field is changing very slowly over time.

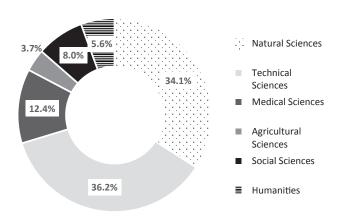
Between the individual stages of the scientific career, a non-negligible decrease of women was also observed. This particularly concerned the transition between master's and doctoral studies. The highest loss here in 2021 was recorded in the medical sciences — 20 percentage points; however, among other sciences the losses reached 12–15 percentage points, and even 18 percentage points in the case of social sciences. A specific feature of medical sciences was the outflow of women at the transition between doctoral studies and research careers — in 2021 there was a loss of 10 percentage points.

However, it is important to mention the fact that horizontal and vertical segregation are intertwined. In the case of sciences where female representation is low (e.g. technical sciences), the decline of women is largely eliminated by their low absolute numbers at the beginning of their academic careers. On the contrary, in the case of sciences in which women dominate from the beginning of their academic careers (e.g. medical sciences), the subsequent losses appear to be high, as the absolute number of women is higher here.

<sup>21</sup> For data see Table 9

## **RESEARCHERS BY DISCIPLINE**

Figure 15: Researchers by field, 2021 (HC) (in %)



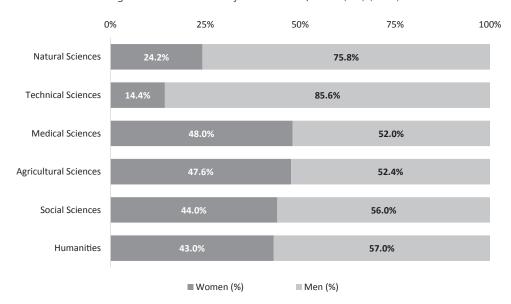
Source: CZSO – Research and Development Indicators.

According to the CZSO data, a total of 69 536 people worked in research and development in 2021, compared to 65 193 in 2020. In terms of the number of researchers, the most important scientific fields are clearly technical sciences (36.2% of researchers) and natural sciences (34.1% of researchers). In 2021, more than two-thirds of Czech researchers worked in these two fields (70%, HC). With a significant difference they were followed by medical sciences (12.4%), social sciences (8.0%), the humanities (5.6%) and agricultural sciences (3.7%), which had the lowest representation (see Figure 15).

In the previous section "From study to research" (Figures 4–14), which described the distribution of women and men from master's and doctoral degrees to research careers, gender representation was set in the context of the ideal path from study to research. The following Figure 16 shows the distribution of researchers by gender and research area.

The lowest representation of women among researchers in 2021 was in the technical sciences, where female researchers held 3 618 positions (i.e. 14.4%), while male researchers held 21 563 (i.e. 85.6%). The second group in which female researchers were least represented was the natural sciences, where there were 5 743 women (i.e. 24.2%). There was relative parity representation in the other disciplines: in the medical sciences, with 48.0% women; agricultural sciences, with 47.6% women; social sciences, with 44.0% women; and the humanities, with 43.0% women (see Figure 16).

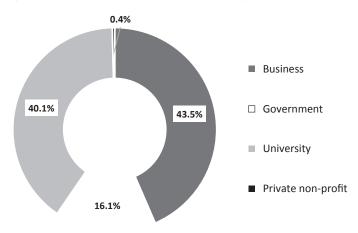
Figure 16: Researchers by sex and field, 2021 (HC) (in %)<sup>22</sup>



Source: CZSO – Research and Development Indicators.

#### **RESEARCHERS BY SECTOR**

Figure 17: Proportion of researchers in 2021, by sector (HC) (in %)<sup>23</sup>



Source: CZSO – Research and Development Indicators.

The largest space for researchers in the Czech Republic is provided by the higher education and business sectors. In 2021, they together accounted for more than 83.6% — 43.5% in the business sector and 40.1% in the higher education sector. The government sector employed 16.1% of researchers and the non-profit sector employed only 0.4% of researchers (see Figure 17).

In terms of the number of researchers, the business sector has clearly grown the most since 2005. In 2021, there were 30 248 researchers employed, compared to 26 522 in 2020, and only 11 069 in 2005. Compared to 2005, the number of researchers working in the business sector has almost tripled (see Figure 18).

The representation of women in the business sector is the lowest of all sectors (see Chart 18). In 2021, only 14.1% of women were working as researchers in business (compared to 14.7% in 2005). In other sectors, the representation of women is significantly higher. In the government sector, women made up 40.7% of employees (38.2% in 2005). In the higher education sector, women represented 35.6% of employees in 2021 (32.9% in 2005). The sector closest to parity was the private non-profit sector, where women made up 45.9% of employees in 2021 (38.3% in 2005) (see Figure 18); however, in terms of the total number of people working here, it is a marginal employer (see Figure 17).

0% 25% 50% 75% 100% Business 85.9% Government 59.3% University 64.4% 35.6% Private non-profit 45.9% 54.1% ■ Women (%) ■ Men (%)

Figure 18: Proportion of researchers in 2021, by sector and field (HC) (in %)<sup>24</sup>

Source: CZSO – Research and Development Indicators.

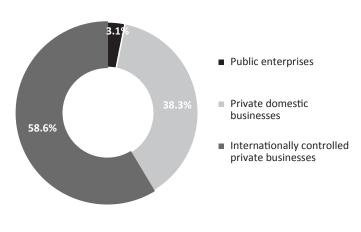
<sup>23</sup> For data see Table 24

<sup>24</sup> For data see Table 24

#### **Business sector**

Research work in the business sector in 2021 was mainly concentrated in private enterprises, which together employed 96.9% of researchers within the sector. Within these private enterprises, there was a higher representation of researchers in those under foreign control — they employed 58.6% of research workers in 2021, compared to 38.3% in domestic enterprises (see Figure 19). The last group of public enterprises had a share of researchers of only 3.1%.

Figure 19: Proportion of researchers in the business sector in 2021, by type of workplace (HC) (in %)<sup>25</sup>



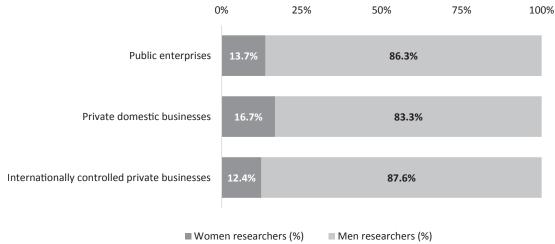
Source: CZSO – Research and Development Indicators.

The representation of women and men researchers in the business sector is very uneven in terms of gender. In all types of enterprises, men significantly dominate; nowhere do women reach even onefifth of representation. Private enterprises under foreign control comprise the largest employer of researchers in the business sector (see Figure 19). In 2021, they employed the most women compared to other enterprises — 2 204 women (i.e. 12.4%), compared to 15 521 men (i.e. 87.6%) (see Figure 20). Public enterprises, which were the smallest employer of researchers within the business sector in 2021, employed 130 women (i.e. 13.7%) and 818 men (i.e. 86.3%). The second highest share of female researchers in 2021 was in private domestic enterprises, which employed 1 938 women (i.e. 16.7%) and 9 637 men (i.e. 83.3%) (see Figure 20).

If we look at the development of the share of female researchers in the business sector between 2005–2021, we find out that while their share in domestic and foreign-controlled private enterprises did not change significantly between the years under the review, the share of female researchers in public enterprises decreased by 2.7 percentage points between 2005–2021 (see Annex — Table 25).

The fact that foreign companies often offer higher salaries than domestic companies in order to attract the best possible candidates may play a significant role. At the same time, the question is whether they are taking advantage of the local, less gender-sensitive culture that—oftentimes unlike in their home countries—allows them to disregard gender equality issues.

Figure 20: Proportion of researchers in the business sector in 2021, by sex (HC) (in %)<sup>26</sup>



Source: CZSO – Research and Development Indicators.

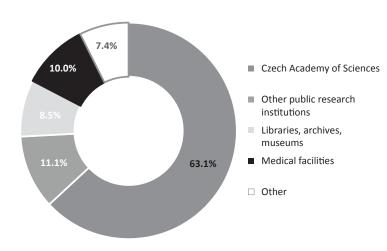
<sup>25</sup> For data see Table 25

<sup>26</sup> For data see Table 25

### **Government sector**

Within the government sector, the largest number of researchers in 2021 was employed at the Academy of Sciences of the Czech Republic, with a total of 7 047 (i.e. 63.1%). The next largest group of researchers were employed in other public research institutions, with 1 234 workers (i.e. 11.1%); then in health care facilities; with 1 114 (i.e. 10.0%); then in libraries, archives and museums; with 948 (i.e. 8.5 %) and finally, in the other category, with 824 (i.e. 7.4%) researchers (see Figure 21).

Figure 21: Proportion of researchers in the government sector in 2021, by type of workplace (HC) (in %)<sup>27</sup>

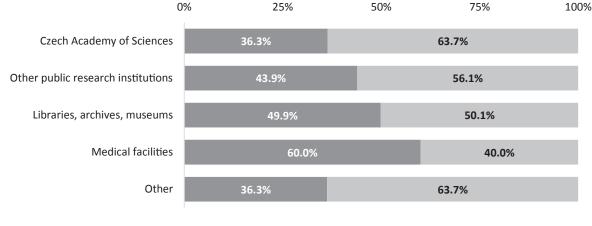


Source: CZSO – Research and Development Indicators.

The predominance of women among medical pharmacy students and graduates is subsequently reflected in their higher representation within health care institutions. Here, women represented 668 researchers (i.e. 60.0%) compared to 446 men (i.e. 40.0%) in 2021. Parity was achieved in libraries, archives and museums, where 473 employees were women (i.e. 49.9%) and 475 were men (i.e. 50.1%). In other public research institutions 542 women (i.e. 43.9%) and 692 men (i.e. 43.9%) were employed. The Academy of Sciences of the Czech Republic, which employed the most researchers overall (see Figure 21), employed 2 561 women (i.e. 36.3%) and 4 486 men (i.e. 63.7%). In 2021, female researchers could be found in the exact same proportion within the Academy of Sciences of the Czech Republic and in the category of other (see Figure 22).

0% 25% 50% 75%

Figure 22: Proportion of researchers in the government sector in 2021, by sex (HC) (in %)<sup>28</sup>



■ Women researchers (%)

Source: CZSO - Research and Development Indicators.

■ Men researchers (%)

If we look at the development of the share of women researchers in the government sector between 2005–2021, we find that there were slight increases in their share in the cases of the Academy of Sciences of the Czech Republic (3.9 percentage points increase), health care facilities (3.7 percentage points increase) and libraries, archives and museums (2.6 percentage points increase). In the cases of other public research institutions and the category other, there were no significant increases or decreases between the years under the review (see Annex — Table 26).

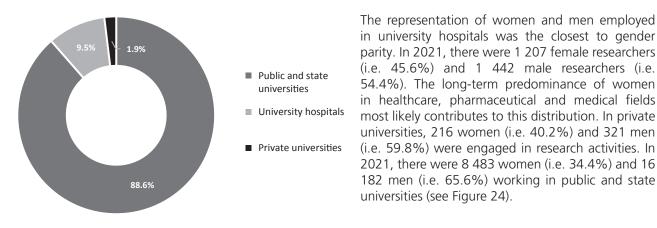
<sup>27</sup> For data see Table 26

<sup>28</sup> For data see Table 26

# **Higher education sector**

In the higher education sector, the most researchers were employed in public and state universities. Out of a total of 27 851 employees in the higher education sector, 24 665 (i.e. 88.6%) were employed in the aforementioned sector in 2021. The second highest number of researchers was in university hospitals — 2 649 (i.e. 9.5%). Private universities employed only 537 (i.e. 1.9%) researchers in 2021 (see Figure 23).

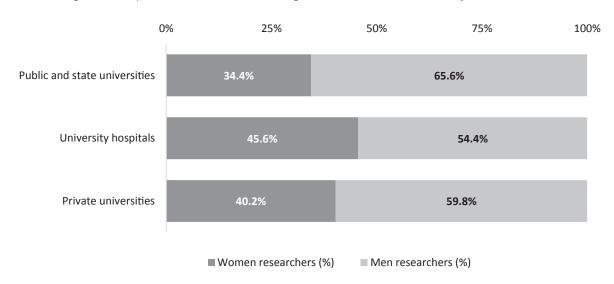
Figure 23: Proportion of researchers in the higher education sector in 2021, by type of workplace (HC) (in %)<sup>29</sup>



in university hospitals was the closest to gender parity. In 2021, there were 1 207 female researchers (i.e. 45.6%) and 1 442 male researchers (i.e. 54.4%). The long-term predominance of women in healthcare, pharmaceutical and medical fields most likely contributes to this distribution. In private universities, 216 women (i.e. 40.2%) and 321 men (i.e. 59.8%) were engaged in research activities. In 2021, there were 8 483 women (i.e. 34.4%) and 16 182 men (i.e. 65.6%) working in public and state universities (see Figure 24).

Source: CZSO - Research and Development Indicators.

Figure 24: Proportion of researchers in the higher education sector in 2021, by sex (HC) (in %)<sup>30</sup>



Source: CZSO – Research and Development Indicators.

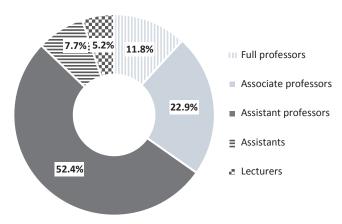
If we look at the development of the share of women researchers in the higher education sector between 2005-2021, we find that there was a slight increase in the share of women in private universities (up by 3.9 percentage points) and in the category of public and state universities (up by 2.5 percentafe points). The category of university hospitals remained without significant change during the period under the review — there was a 1.1 percentage points increase in the share of women between the years under the review.

<sup>29</sup> For data see Table 27

<sup>30</sup> For data see Table 27

#### **ACADEMIC STAFF AT UNIVERSITIES**

Figure 25: Structure of academic staff (FTE) by academic position, in 2021<sup>31</sup>



Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

As part of its statistical survey, the Ministry of Education, Youth and Sports collects and publishes data on academic staff of higher education institutions in the form of full-time equivalents (FTE). In 2021, there were 18 724 FTE academic staff working at universities. Of those, assistant professors had the highest representation with 9 807 (i.e. 52.4%) employees, followed by associate professors with 4 293 (i.e. 22.9%) employees in 2021. Professors represented 2 213 (i.e. 11.8%) of academic FTEs, assistants represented 1 443 (i.e. 7.7%) and 968 (i.e. 5.2%) were lecturers (see Figure 25).

In terms of the ideal typical academic path (from lecturer to professor), the representation of women decreases towards the highest positions, similarly to the

situation in research. Among lecturers, women (55.4%) predominated over men (44.6%) in 2021. In the category of assistants, men (52.7%) already prevailed over women (47.3%). For assistant professors, this preponderance was even higher — women made up 41.4% and men 58.6% of the workforce. The greatest inequalities in gender representation in the academic career path are then found at the highest academic levels, among associate professors and full professors. In 2021, only 26.8% of associate professors were women, while men accounted for 73.2% of the workforce. For female professors, the proportion was 11.1 percentage points lower (15.7%) (see Figure 26).

0% 25% 50% 75% 100% **Full professors** 15.7% 84.3% Associate professors 26.8% 73.2% Assistant professors 41.4% 58.6% Assistants 47.3% 52.7% Lecturers 55.4% 44.6%

Figure 26: Structure of academic staff (FTE), in 2021, by sex and academic position<sup>32</sup>

Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

■ Men researchers (%)

Figure 27 shows the changes over time in gender inequalities in academic FTE between 2005 and 2021. Compared to 2005, the percentage of women has increased: among professors by 4.7 percentage points to reach 15.7% in

■ Women researchers (%)

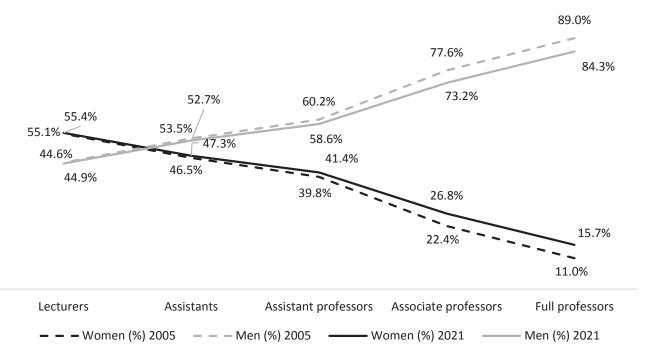
<sup>31</sup> For data see Table 29

<sup>32</sup> For data see Table 29

2021 and among associate professors by 4.4 percentage points to reach 26.8% in 2021 (see Figure 27). For the other academic levels, no significant changes have been observed between the reference years.

If we focus on the development of the representation of women in academic positions by qualification level, then based on the prediction<sup>33</sup>, which is predicated on development between 2010–2021, we find that parity among professors will be reached in the year 2 329. In the case of associate professors, exact parity will be reached in the year 2170.

Figure 27: Temporal comparison of the representation of women and men in total academic positions (FTE) between 2005 and 2021, arranged by ideal typical academic career path<sup>34</sup>



Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

<sup>33</sup> A function in Microsoft Excel was used to calculate the prediction. Two related data series were placed in the sheet – a series with data items for the timeline and a series with corresponding values. The prediction predicts future values based on existing time-based data and the AAA version of the Exponential Smoothing (ETS) algoritm (link: https://support.microsoft.com/cs-cz/office/vytvo%C5%99en%C3%AD-progn%C3%B3zy-v-excel-pro-windows-22c500da-6da7-45e5-bfdc-60a7062329fd). In previous monitoring reports, the prediction was calculated on the basis of averages of annual increases, which were then added. For this reason, the predicted values in this monitoring report differ from the values presented in reports from previous years.

<sup>34</sup> For data see Table 29

## Academic staff by scientific field

The Ministry of Education, Youth and Sports does not collect data on academics by scientific field but distinguishes individual faculties of universities. We therefore manually classified faculties according to the Frascati Manual<sup>35</sup>, an internationally accepted method of collecting and using R&D statistics, which provides detailed information on the classification of disciplines into scientific fields. The following text therefore provides a certain, although rather general, overview of the representation of women and men among academics (FTE) by scientific field.

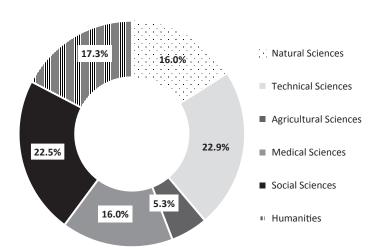


Figure 28: Structure of academic staff (FTE) by discipline in 2021, by field, in %

Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

In 2021, technical (22.9%) and social sciences (22.5%) made up the highest proportion of academic positions. This was followed by humanities (17.3%), natural sciences (16.0%) and medical sciences (16.0%). Agricultural sciences (5.3%) had the lowest representation (see Figure 28).

The representation of women and men in academic positions within the above-mentioned fields of science is presented in Figure 29. The social sciences (45.4% women), medical sciences (44.4% women) and humanities (42.5% women) were closest to parity in 2021. In contrast, the lowest female representation could be found in the natural (25.5%), technical (22.5%) and agricultural sciences (37.6%) (see Figure 29).

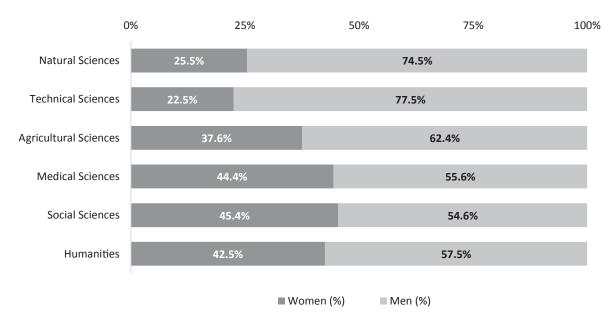


Figure 29: Structure of academic staff (FTE) by sex and field in 2021, in %

Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

<sup>35</sup> www.oecd.org/publications/frascati-manual-2015-9789264239012-en.htm

## Academic staff by academic position

As in the case of academics by fields, for this section we also drew data from the Ministry of Education, Youth and Sports, which has been manually coded according to Frascati's Manual and expressed in the sum of academic full-time equivalents (FTE). Information on the structure of academics according to their position and scientific field has been available from the Ministry of Education, Youth and Sports since 2017. For this reason, the years 2017 and 2021 are used for the time comparison.

In Figure 30, we can observe that as the academic qualification level increases, the proportion of women at each step decreases in the monitored years. Between 2017 and 2021, there were significant changes in the representation of women in the lecturer category — while in 2017 women made up 58.9%, by 2021 there was a decrease of 3.5 percentage points, to reach a value of 55.4%. A similar trend was observed in the category of assistants — here there was a decrease of 3.1 percentage points, to reach a value of 47.3% in 2021 (see Figure 30).

The highest losses of women in terms of transitions between academic degrees can be observed between the categories of assistant professors and associate professors in both compared years. In 2017, the loss in representation of women was 15.5 percentage points, and in 2021 the loss was 14.6 percentage points. Significant losses in the representation of women can also be observed between the associate professor and professor stages — in 2017 this loss was 9.9 percentage points, and in 2021 the loss was 11.1 percentage points (see Figure 30). On the other hand, a more favourable development can be observed at the transition between lecturers and assistants. While in 2017 there was an 8.4 percentage points loss in the representation of women between these degrees, in 2021 the loss reached only 8.0 percentage points. In the case of assistants and assistant professors, the loss in representation of women also decreased between these years by 3.5 percentage points (see Figure 30).

On the lower levels of the academic career ladder, the share of women's employment is decreasing, and the initial disproportion (in favor of women) is moving towards a greater gender balance between women and men. However, on the higher levels of the ladder, the changes are very small, and there is still a strong predominance of male over female academics.

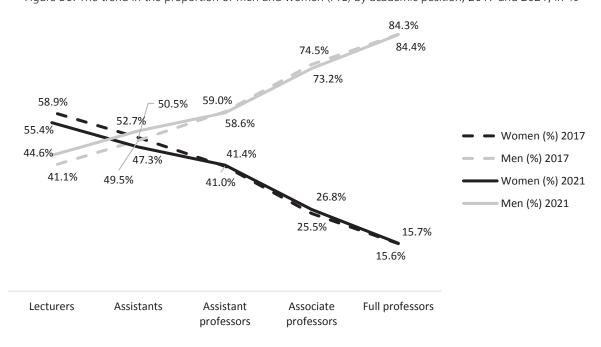


Figure 30: The trend in the proportion of men and women (FTE) by academic position, 2017 and 2021, in %

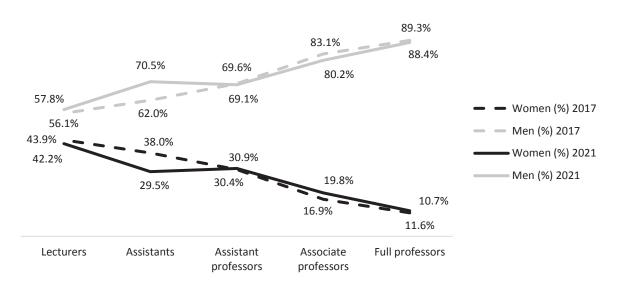
Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

Despite an increasing trend in the representation of women among academic staff that is occurring in practically all scientific fields, the rate of growth is very slow. Female associate professors and professors are largely underrepresented in all fields. It can be assumed that if efforts will not be made for their more significant representation, parity in at least one of the six monitored scientific fields will not be achieved for associate professors for the next 10 years—associate professors in the social sciences would be the first to achieve parity in 2030—while for female professors it would take 54 years, i. e.until 2074.

As academic positions grow in the natural sciences, the inequality gap is widening, and the number of women is declining. For a long time, the lecture position has had the highest percentage of women of all classifications, 42.2% in 2021. Since 2017, there has been a drop in the representation of women in this position — by 1.7 percentage points (see Figure 31). The decline was even greater for the assistant position, where the decrease between the monitored years was 8.5 percentage points, reaching a value of 29.5% representation in 2021. For assistant professors, the decrease was 0.5 percentage points, reaching 30.9% representation in 2021, and for associate professors, the decrease was 2.9 percentage points.

Figure 31: The trend in the proportion of men and women (FTE) in the natural sciences, 2017 and 2021, by academic position, in %

# Natural sciences



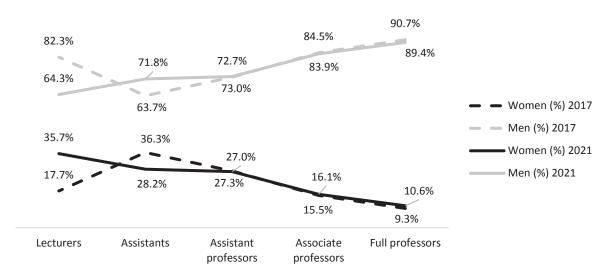
Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

The technical sciences are characterized by an unequal gender representation at all stages, and as Figure 32 indicates, the situation of academics is unfortunately no exception. However, the good news could be that there has been a 18.1percentage points increase in the proportion of women lecturers since 2017 (see Figure 32). Unfortunately on the other hand, there has also been a significant decline in female assistants between the monitored years — a loss of 8.1 percentage points. There were no significant changes in other academic positions between the monitored years.

The break in the ideal typical path comes at the transition between assistant professors and associate professors — in 2021 the loss reached a value of 11.0 percentage points (compared to a loss of 11.8 percentage points in 2017). The situation is more favorable at the transition between assistants and assistant professors, where the loss in 2021 reached a value of 1.2 percentage points, while in 2017 the loss was 8.9 percentage points (see Figure 32).

Figure 32: The trend in the proportion of men and women (FTE) in the technical sciences, 2017 and 2021, by academic position, in %

# Technical sciences



Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

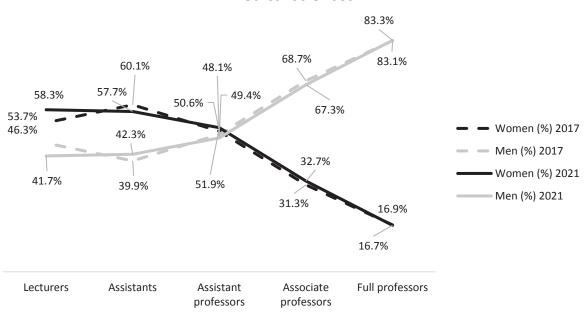
We can observe a more favourable development within the medical sciences. Women predominated here in three categories: lecturers, assistants and assistant professors. Specifically, a total of 58.3% of lecturers were women in 2021 (an increase of 4.7 percentage points compared to 2017, when 53.7% were women); 57.7% of assistants were women; and 51.9% of assistant professors were female (see Figure 33). In the category of associate professors, women represented 32.7% of employees — an increase of 1.4 percentage points compared to 2017, and in the category of professors, women made up 16.7% of employees.

Although equal representation in these positions within the medical sciences is a good indicator, care must be taken to avoid over-feminization of the field and to maintain a balance of gender representation. It is worth considering whether there is a glass ceiling effect in the positions of associate professor and professor. Despite the over-representation of women among students and graduates of master's and doctoral programmes in medical sciences, and the high proportion of female researchers, there are very few women in the aforementioned two positions, and their representation there does not correspond to their presence in the field.

The break in the ideal typical trajectory comes at the transition between assistant professors and associate professors, where in 2021 the loss of women was 19.2 percentage points (in 2017 the loss was 19.3 percentage points). Another high loss in women's representation was at the transition between associate professors and professors, where a loss of 16.0 percentage points was witnessed in 2021 (in 2017 the loss was 14.4 percentage points).

Figure 33: The trend in the proportion of men and women (FTE) in the medical sciences, 2017 and 2021, by academic position, in %

### Medical sciences



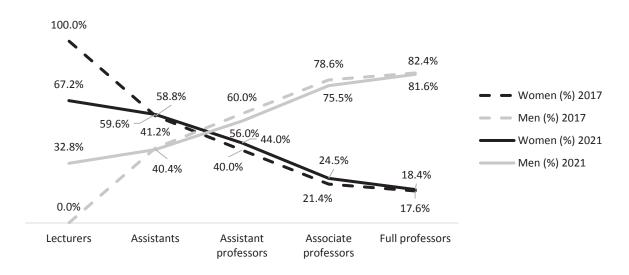
Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

In Figure 34, which describes agricultural sciences, it is necessary to mention the fact that the extreme value of 100% in the representation of women among lecturers is due to the fact that in 2017 there were 2 women (100%) and no men (0%) working as lecturers in agricultural sciences. For this reason, this value may appear extreme. However, by 2021, the situation had slightly improved – with 5 women (i.e. 67.2%) and 2 men (i.e. 32.8%) working as lecturers. There was a higher representation of women in agriculture sciences in the categories of assistant professors, with an increase of 4.0 percentage points, and associate professors, with an increase of 3.2 percentage points.

Within agricultural sciences, women dominated in the positions of lecturers (67.2%) and assistants (59.6%) in 2021. Associate professors accounted for 24.5% of the workforce and professors for 18.4%. The highest losses between individual academic degrees in 2021 can be observed in the agricultural sciences at the transition between assistants and assistant professors (a 15.7 percentage points decline) and between assistant professors and associate professors (a 19.4 percentage points decline) (see Figure 34).

Figure 34: The trend in the proportion of men and women (FTE) in the agriculture sciences, 2017 and 2021, by academic position, in %

### Agriculture sciences

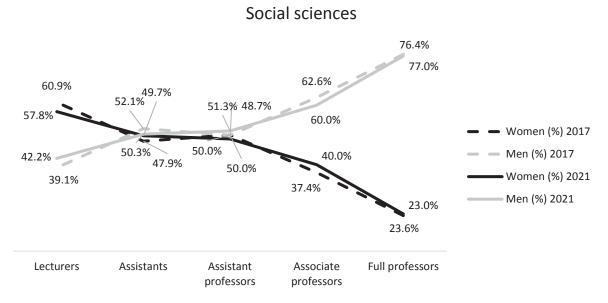


Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

A good example for other fields of science can be the social sciences, in which the smallest differences in the representation of women and men were registered between the monitored years at all qualification levels. However, in the case of the higher academic grades, there are also significant differences in the social sciences. While parity representation can be found in 2021 in the positions of assistant and assistant professors, only 40.0% of women worked as associate professors and just 23.6% as professors (see Figure 35).

The highest loss in the representation of women between individual academic degrees was recorded in 2021 at the transition between associate professors and professors, witha 16.5 percentage points loss (in 2017 the loss was 14.4 percentage points). The second highest loss can be observed between assistant professors and associate professors; in 2021 it amounted to 8.6 percentage points (in 2017 the loss was 12.6 percentage points) (see Figure 35).

Figure 35: The trend in the proportion of men and women (FTE) in the social sciences, 2017 and 2021, by academic position, in %



Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

Similarly to the agricultural sciences, the humanities suffer from a strong vertical segregation, where the number of women in academic roles decreases dramatically with a higher academic position. Between the monitored years, there has also been a decline in the representation of women at each level of the academic career. The most notable decline was in the position of lecturers (a loss of 4.3 percentage points), assistants (a loss of 3.7 percentage points) (see Figure 36).

As is the case with other scientific disciplines, the humanities also exhibit a significant loss of women in the transition between individual academic levels. In 2021, the gap between the lowest grade (lecturer) and the highest grade (professor) was 47.9 percentage points. Among the academic career steps, the highest losses in 2021 occurred at the transitions between: the lecturer and assistant positions with a loss of 17.8 percentage points (in 2017 it was 18.4 percentage points); between the positions of assistant professor and associate professor, with a loss of 14.1 percentage points (12.7 percentage points in 2017); and between associate professor and professor, with a loss of 10.6 percentage points (8.2 percentage points in 2017) (see Figure 36).

Figure 36: The trend in the proportion of men and women (FTE) in the humanities, 2017 and 2021, by academic position, in %

**Humanities** 

### 78.6% 73.6% 69.6% 77.8% 56.9% 68.0% 55.2% 53.9% Women (%) 2017 46.1% 48.5% Men (%) 2017 44.8% 43.1% 32.0% 30.7% Women (%) 2021 22.2% 30.4% Men (%) 2021 26.4% 21.4% Lecturers Assistants Assistant Associate Full professors professors professors

Source: Ministry of Education and Science – Statistics on performance indicators of public and private universities in the Czech Republic; CZSO – Research and Development Indicators.

### Wages

The gender pay gap indicates the percentage by which female academics' average salaries are lower than those of their male colleagues. These differences can be found between men and women at all qualification levels. In 2021, these gaps ranged from 8.5% against female assistants to 11.6% against female associate professors and lecturers (see Figure 37). In 2021, when compared to their male colleagues, female professors' average monthly salaries were 8 649 CZK lower, and assistant professors' were 5 845 CZK lower.<sup>36</sup>

Since it was not possible to include data on salary components that included personal evaluations in the analysed data, it can be assumed on the basis of general labour market data published by the CZSO that the actual differences in the wages of academic workers will be even more significant.

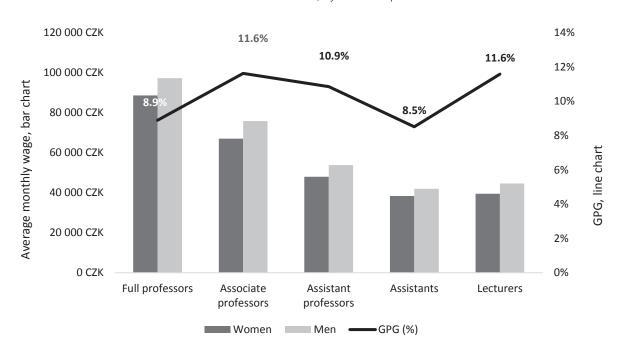


Figure 37: The gender pay gap (GPG, in %) in gross average monthly wages for academic staff in 2021, by academic position<sup>37</sup>

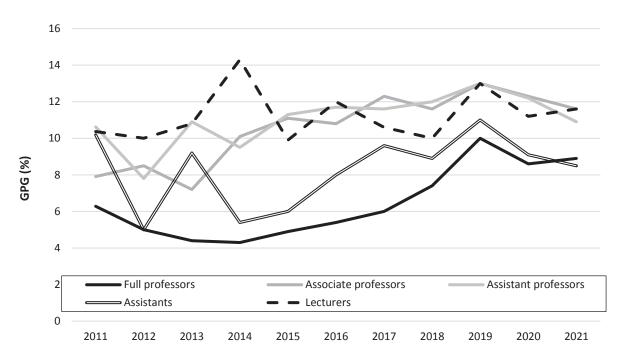
Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

Figure 38 illustrates the development of the gender pay gap over the period 2011–2021. As we can see, there has been a gradual increase in pay inequality at all qualification levels with the exception of assistants. In the case of assistants, the gap decreased by 1.7 percentage points between 2011 and 2021, but the overall trend is uneven, exhibiting both decreasing and increasing trends. It follows from the above development that instead of reducing the wage differences of academic workers, the exact opposite is happening and these differences are increasing over time.

<sup>36</sup> For data see Table 37

<sup>37</sup> For data see Table 37

Figure 38: Evolution of the gender pay gap (GPG, in %) in average gross monthly salaries of academic staff over the period 2011-2021, by qualification level



Source: Ministry of Education and Science – Statistical Yearbook (Employees and wage resources).

### **DECISION-MAKING POSITIONS**

The differences in the representation of women and men in decision-making positions in science and research were in favour of men in 2021. In that year, the total share of women at the head of research, higher education and other R&D institutions (Grant Agency, Council of Universities, Research, Development and Innovation Council) was only 13.5%. In the broader management of these institutions, i.e. decision-making, strategic and control bodies, 22.6% of members were women. The representation of women in the advisory and expert bodies of these institutions was slightly higher — 25.7% (see Table A).

It is a positive step that the Grant Agency of the Czech Republic was headed by a woman, as was the Academy of Sciences of the Czech Republic. Unfortunately, the leadership of state and public universities is still overwhelmingly dominated by men (85.7%). The same is true for public research institutions, where the share of women in leadership was only 5.6% (see Table A).

In both the decision-making and advisory bodies of each of the organisations presented, we can also note that women did not achieve parity in representation anywhere. Women fared best in the Council of Universities, where their representation was 34.3% (see Table A).

Table A: Proportion of women and men in management and decision-making bodies at public research institutions, 2021<sup>38</sup>

	N	lanageme	ent		ı-making, ıpervisory		Ad	visory bo	dies
	Women	Men	% Women	Women	Men	% Women	Women	Men	% Women
Public and state universities	4	24	14.3	526	1784	22.8	-	-	-
Public research institutions	1	17	5.6	70	218	24.3	-	-	-
Czech Academy of Sciences	1	0	100.0	59	252	19.0	84	294	22.2
Czech Rectors' Conference	0	1	0.0	21	79	21.0	36	95	27.5
Council of Czech Universities	0	1	0.0	94	180	34.3	137	254	35.0
Technology Agency of the Czech Republic	0	1	0.0	5	23	17.9	58	158	26.9
Czech Science Foundation	1	0	100.0	4	22	15.4	97	391	19.9
Learned Society of the Czech Republic	0	1	0.0	15	154	8.9	-	-	-
Total	7	45	13.5	794	2712	22.6	412	1192	25.7

Source: Annual Reports and websites of the given institutions.

If we look at the development of the position of women in leadership and decision-making positions in R&D institutions from a longer time perspective, as mapped in our monitoring reports since 2006, we can see that the representation of women held at stable values around 10–11% between the years 2011–2021, with the exception of 2016–2019, when their representation was around 15.0%. For decision-making positions, we can observe a downward trend over the monitored period, when there was a decrease of 3.8 percentage points between 2011 and 2021. The highest representation of women was achieved in 2015, with 23.3%. The representation of women in decision-making positions within advisory bodies had an increasing trend until 2015 — at the same time, in 2015 the highest share of women in the monitored period was recorded, with 30.8%. In the following years, the trend was uneven, but since 2015 there has been a 7.5 percentage points decrease in the share of women.

<sup>38</sup> For data see Tables 38-44; at the same time, we should point out that there was a change in the methodology, where the Ministry of Education, Youth and Sports began taking into account not only university rectors, but also deans and, for example, heads of departments. For this reason, the reported values are not fully comparable with the values before 2018.

### SCIENCE AND ENGINEERING PROFESSIONALS

As part of this report, we have previously pointed out the problem of unequal representation of men and women in the field of natural and technical sciences. That is why we have decided to focus more attention on this area and to examine in more detail the differences between specialists in the field of science and technology<sup>39</sup> between 2012–2020.<sup>40</sup> Using data from the Czech Statistical Office, which is collected as part of the Labour Force Survey (LFS), we will take a closer look at the shares of men and women in science and technology professions, as well as the gender differences in their financial remuneration.

In 2020 (data for 2021 were not available at the time of creation of the 2021 Monitoring Report), 148.3 thousand specialists were employed in the field of science and technology. For S&E specialists, it is not surprising that the proportion of women was around one quarter (41 539 in 2020). While in absolute terms we can observe a slight gradual increase in the number of women in this field over time, in proportion the differences are not fundamental. While in 2012 the representation of women was 22.4%, in 2020 their representation was 28.0% (thus an increase of 5.6 percentage points), which is, however, the highest proportion over the selected period (see Figure 39).

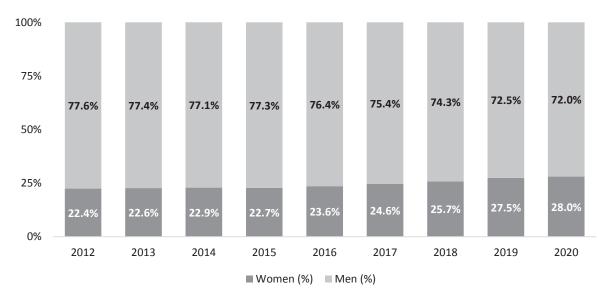


Figure 39: Proportion of men and women (%) among science and engineering professionals, 2012–2020<sup>41</sup>

Source: CZSO – Labour Force Survey (LFS).

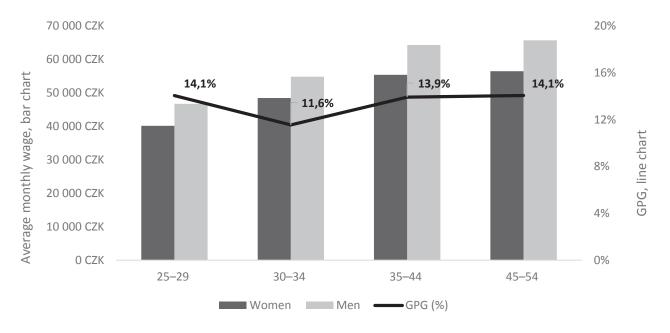
For science and engineering specialists, we can also observe differences in average gross monthly wages not only by gender but also by age. Women are generally at a disadvantage compared to men, and in 2021 the largest salary differences were found in the age categories 45–54 (a difference of 9 250 CZK) and 25–29 (difference of 6 568 CZK). For both of these categories, the GPG was 14.1% in favour of men (see Figure 40). In the case of the 35-44 age category, the GPG was 13.9% in favour of men, and for the 30–34 age category, it was 11.6% (see Chart 40).

<sup>39</sup> Persons in occupations with the highest skill level. These include, for example: astronomers, meteorologists, chemists, geologists, statisticians, biologists, botanists, zoologists, specialists in manufacturing, construction and related fields, architects, cartographers, surveyors, electrical engineers or graphic and multimedia artists.

<sup>40</sup> Data for 2021 were not available on the website of the Czech Statistical Office at the time of publication of the Monitoring Report for 2021

<sup>41</sup> For data see Table 45

Figure 40: Gender pay gap (GPG, %) in gross average monthly wages among science and engineering professionals in 2021, by age groups<sup>42</sup>



Source: CZSO – Labour Force Survey (LFS).

<sup>42</sup> For data see Table 45

### THE GENDER GAP IN PATENTS

This year, we also focused on a new aspect, which is influenced by the unequal position of women and men in society and follows from previously mentioned differences, such as the representation of women as researchers and academics — and that is the aspect of patents granted. If we look at the change over time (see Figure 41), we can observe certain improvements in the long-term situation. Whereas in 2005 only 5.3% of all patents were granted to women, in 2021 it was already 8.7%. This is a slight decrease compared to previous years, when the peak of 11.5% was reached in 2019 (see Figure 41).

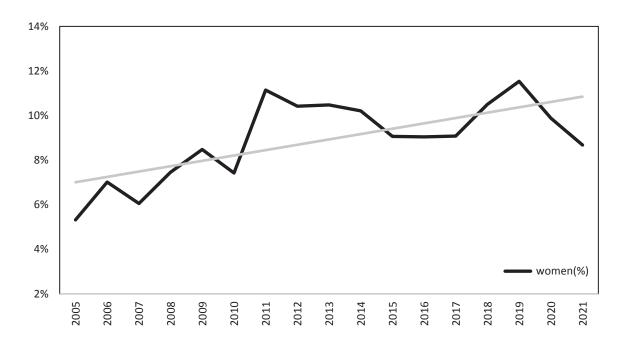


Figure 41: The trend in the proportion (%) of patents granted to women, 2005–2021<sup>43</sup>

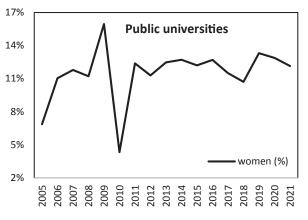
Source: Industrial Property Office and CZSO, 2021.

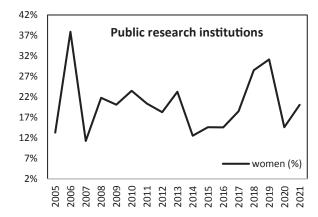
If we focus on individual fields, the proportion of women who received patents at public universities almost doubled in the monitored period. Whereas in 2005 the share of women was 6.9%, by 2021 their representation was already 12.1% (see Figure 42). The highest share of women in the number of patents granted in this area was 16.0% in 2009. Except for a fluctuation in 2010, when the representation of women was only 4.3% (the lowest value in the monitored 2005–2021 period), their share has remained at stable values (see Figure 42).

Women working in public research institutions achieve higher representation in patents granted. From 2005 to 2021, the share of patents granted to these women increased by 6.7 percentage points, from 13.3% in 2005 to 20.0% in 2021 (see Figure 43). The highest share was achieved by women in 2006, when they were granted 37.9% of patents in this area.

<sup>43</sup> For data see Table 46

Figure 42 and 43: The trend in the proportion (%) of patents granted to women working at public universities and public research institutions, 2005–2021<sup>44</sup>



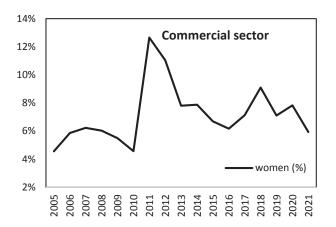


Source: Industrial Property Office and CZSO, 2022.

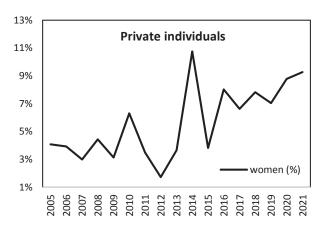
Source: Industrial Property Office and CZSO, 2022.

Compared to the public sector, the situation in the private sector is worse. In businesses, women received only 5.9% of patents in 2021. Since 2005, there has been an increase of only 1.3 percentage points (see Figure 44). At the same time, the ten percent limit was exceeded only twice in the monitored period: in 2011 (12.7% women) and in 2012 (11.0% women). The proportion of women who obtained a patent was also low among individuals. In 2021, this share was 9.3%. Compared to 2005, there was a 5.2 percentage points increase (see Figure 45). The 10% threshold for women as individuals was broken only once in the monitored period: in 2014, when the share of women granted patents was 10.8%.

Figure 44 and 45: The trend in the proportion (%) of patents granted to women working in the commercial sector and to women as private individuals, 2005–2021<sup>45</sup>



Source: Industrial Property Office and CZSO, 2022.



Source: Industrial Property Office and CZSO, 2022.

<sup>44</sup> For data see Table 46

<sup>45</sup> For data see Table 46

### THE CZECH REPUBLIC IN A EUROPEAN CONTEXT

### Researchers

The European Statistical Office (Eurostat) publishes data on a regular basis on the number and structure of R&D personnel in the individual member countries of the European Union and in some other European countries, primarily in the member states of the European Free Trade Area (EFTA). Data are regularly collected from the countries' national statistical offices. However, in the case of some members, data publication is accompanied by a time delay, which is subsequently reflected in the availability and updating of these data.

For the analysis of inequalities in the representation of women among R&D workers in a Europe-wide comparative perspective, we have therefore focused on selected indicators, which, in relation to the Monitoring Report itself, can be considered key, (relatively) methodologically comparable and up to date (data for the time period 2020).

Figure 46 presents the differences in the representation of women researchers in full-time equivalents (FTE) between EU Member States in 2020. The representation of women was highest in the Baltic Republics (Latvia 50.0%, Lithuania 49.1% and Estonia 42.5%) and in some countries in the Balkan Peninsula (Romania 47.3%, Croatia 49.0% and Bulgaria 46.7%). Based on these data, we can declare a relative balance in the share of both sexes in the number of full-time researchers in these countries.

On the contrary, the Czech Republic is among the group of countries that perform relatively worst in this regard. In 2020, the proportion of women in full-time research positions in the Czech Republic was the second lowest among the examined countries (27.6%). The higher representation of women in research, especially in Eastern European countries, is probably related to the fact that the overall expenditure on research is low there, as are wages, and men tend to prefer other jobs. <sup>46</sup> Therefore, a higher representation of women does not necessarily indicate higher gender equality but may instead point to inequalities in terms of finances, stereotypical career paths and a male orientation towards areas with higher wages and prestige. Compared to other countries of the former Eastern Bloc, the Czech Republic has significantly higher research expenditures (see Figure 46).

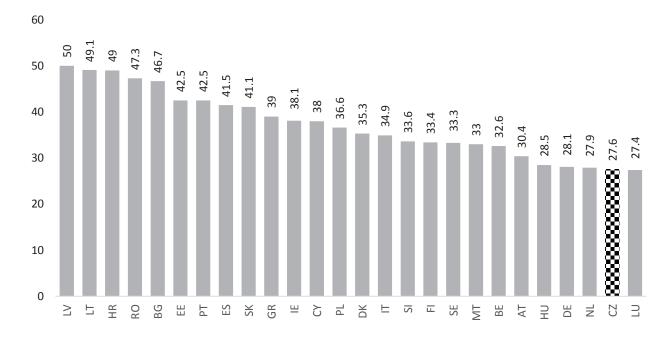


Figure 46: Proportion (in %) of women among researchers in the European Union, 2020<sup>47</sup>

Source: Eurostat – Share of women researchers by sector of performance.

<sup>46</sup> EC. 2003. Waste of talents: turning private struggles into a public issue. Women and Science in the Enwise countries. <a href="https://wbc-rti.info/object/document/7658/attach/0308\_enwise-report\_2.pdf">https://wbc-rti.info/object/document/7658/attach/0308\_enwise-report\_2.pdf</a>

<sup>47</sup> Due to the unavailability of data for all EU member states for 2020 at the time of writing this Monitoring Report, 2019 data was used for Greece, Ireland, Sweden, Belgium, Austria, Germany, the Netherlands and Luxembourg.

Over the past 10 years, the representation of women within individual countries did not change significantly. Also in 2010, the highest representation of women among researchers was in the Baltic Republics (Lithuania 51.2%, Latvia 50.8%, Estonia 43.4%). The Benelux countries dominated the bottom ranks with the lowest representation of women in 2010 (Luxembourg 21.2%, Netherlands 25%). Compared to 2010, when the representation of women was 28.1%, the Czech Republic has worsened by 0.5 percentage points in 2020.

### Researchers by sector

In the next part, we focused on the international analysis of female representation inequalities among researchers separately by the sectors in which the work is carried out (government, business and higher education). Due to the low number of researchers in the private non-profit sector, the analysis in this specific group was abandoned. Data were available for the total number of researchers (HC) in 2020.

Figure 47 shows the differences between EU and EFTA countries in female representation among researchers working in the business sector. The Czech Republic had the second lowest value among these countries (13.7%). Only Japan recorded a lower value (10.9%). In contrast, the highest share of female researchers in the business sector was recorded in countries such as Northern Macedonia (55.2%), Bosnia and Herzegovina (51.6%) and Latvia (36.5%).

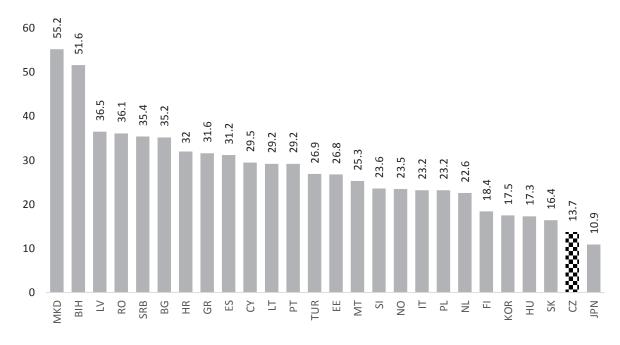
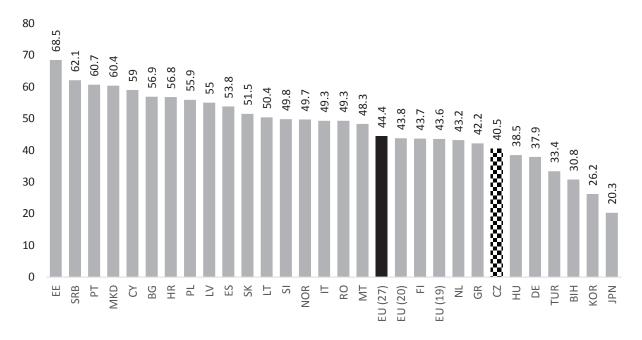


Figure 47: Proportion (%) of women researchers in the business sector, EU countries and EFTA, 2020

Source: Eurostat – Share of women researchers by sector of performance.

Within the government sector, the Czech Republic's position is slightly more favourable. In 2020, the average value of the share of women within this sector was 44.4%. The Czech Republic, with a value of 40.5%, is thus far from this average (see Figure 48). Countries such as Estonia (68.5%), Serbia (62.1%) and Portugal (60.7%) have the highest share of women. There is still a huge gap between the Czech Republic and these countries — more than 20 percentage points (see Figure 48).

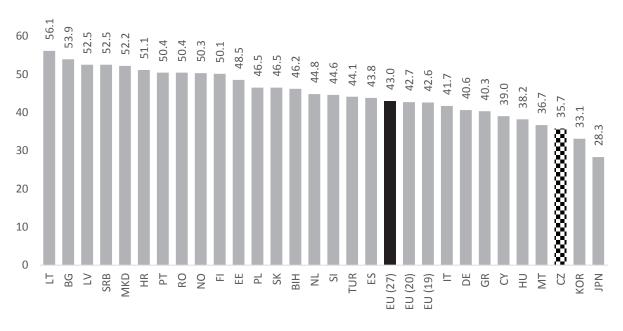
Figure 48: Proportion (%) of women among researchers in the government sector, EU countries and EFTA, 2020



Source: Eurostat – Share of women researchers by sector of performance.

The situation of female researchers in the Czech Republic was relatively unfavourable compared to the other analysed countries even in the higher education sector, where their representation was the third lowest (see Figure 49). While the European average was 43.0% in 2020, in the Czech Republic the representation of female researchers was 35.7%. The representation of female researchers in the higher education sector was even lower in Korea (33.1%) and Japan (28.3%). Compared to the European average, the Czech Republic lagged behind by 7.3 percentage points. Women researchers were highly represented in Lithuania (56.1%), Bulgaria (53.9%) and Latvia (52.5%) (see Figure 49).

Figure 49: Proportion (%) of women among researchers in the higher education sector, EU countries and EFTA, 2020



Source: Eurostat – Share of women researchers by sector of performance.

### Science and engineering professionals

In European terms, the Czech Republic stands well below average in the representation of women among specialists in the fields of science and technology.<sup>48</sup> In 2021, women in the Czech Republic represented 27.3% of employees in these fields. This is slightly below the European average, which was 29.5% in 2021 (see Figure 50). None of the EU countries has reached parity in this area. The countries closest to parity were Estonia (42.4%), Latvia (40.7%) and Portugal (40.6%). Only Malta (20.2%), Romania (21.6%) and Finland (25.1%) had lower representation of women among specialists in the fields of science and technology than the Czech Republic.

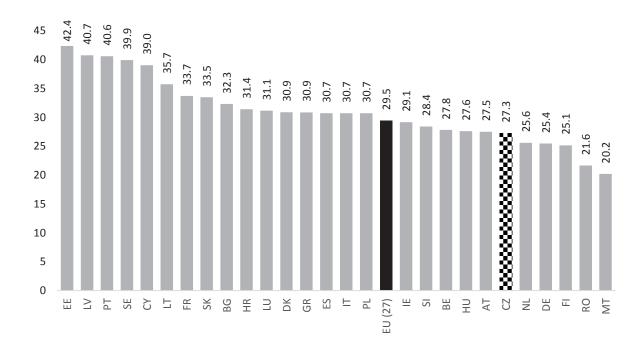


Figure 50: Proportion (%) of women among science and engineering professionals (HC) in the EU member states, 2021

Source: Eurostat – Share of women researchers by sector of performance.

<sup>48</sup> Specialists in the field of science and technology can be divided into 2 main groups: Specialists in the field of natural sciences, mathematics and statistics and specialists in the field of technical sciences, manufacturing, construction and architecture.

### **DEFINITIONS OF STAFF CATEGORIES USED IN THE MONITORING REPORT**

Employment categories	Category definition	Source
Research and development (R&D) personnel	According to the OECD definition given in the Frascati manual, R&D employees are researchers who directly carry out research and development, as well as auxiliary, technical, administrative and other workers at research and development workplaces in individual intelligence units. R&D employees also include those employees who procure direct services for research and development activities, such as R&D managers, administrative officers, secretaries, etc.	CZSO: Research and Development Indicators (link: https://www.czso.cz/csu/czso/ ab00491932)
Researchers	They deal with the conception or creation of new knowledge, products, processes, methods and systems, or manage such projects. Researchers make up the most important group of R&D employees — they form the pillar of scientific research activities. These are primarily employees classified in main class 2 (Scientific and professional mental workers) and subgroup 1237 (Heads of research and development departments) of the valid job classification — extended (hereinafter referred to as KZAM-R)	CZSO: Research and Development Indicators (link: https://www.czso.cz/csu/czso/ ab00491932)
Technical and professional personnel	Participates in research and development by carrying out scientific and technical tasks and applying concepts and operational methods, usually under the supervision of researchers. These are mainly employees classified in class 31 (Technicians in physical, technical and related fields) and class 32 (Technical workers in the field of biology, health and agriculture workers and workers in related fields) KZAM-R	CZSO: Research and Development Indicators (link: https://www.czso.cz/csu/czso/ ab00491932)
Other R&D personnel	They are craftsmen, secretaries and clerks who participate in research and development activities or are included in such work; managers and administrative workers whose activities are directly in the service of research and development are also included.	CZSO: Research and Development Indicators (link: https://www.czso.cz/csu/czso/ ab00491932)
Academic staff	Professors, associate professors, assistant professors, assistants, lecturers and scientific, research and development workers who are employees of the university. They carry out direct teaching activities, work related to direct teaching activities, scientific, research and development and innovation, artistic or other creative activities.	Ministry of Education, Youth and Sports – Statistical Yearbook – Employees and wage resources(link: https://genderaveda.cz/wp-content/uploads/2023/01/Monitorovacizprava-o-postaveni-zen-ve-vedeza-rok-2020_CZ_web.pdf); Ministry of Education, Youth and Sports: Statistics of performance indicators of public and private universities in the Czech Republic
Science and engineering professionals	Persons in occupations with the highest skill level. These include, for example: astronomers, meteorologists, chemists, geologists, statisticians, biologists, botanists, zoologists, specialists in manufacturing, construction and related fields, architects, cartographers, surveyors, engineers, electrical technicians or graphic and multimedia artists. The group is defined by the internationally used ISCO-08 classification, or its national mutation CZ-ISCO.	CZSO – Labour Force Survey (LFS)
Persons in R&D decision-making positions	Persons in the management of institutions (directors, rectors), persons in decision-making, strategic and control bodies and persons in R&D advisory bodies	Data: Annual reports and the websites of relevant institutions
Persons in charge of institutions	The person in charge is the person who represents the given institution. In selected institutions, this is the director, chairman, rector or dean.	Data: Annual reports and the websites of relevant institutions
Persons in decision- making, policy- making and control bodies	Persons in decision-making and control bodies are classified according to individual institutions:  • v. v. i.: institute board and supervisory board  • University: academic senate, vice dean, scientific/artistic/academic council, board of directors  • GA CZ: presidency, scientific council, supervisory board  • TA CR: presidency, research board, control board  • CAS: Academic Assembly, Supervisory Committee, Academic Council, Scientific Council  • RVVI: members of RVVI  • RVŠ: presidency, assembly  • ČKR: presidency, chambers (quite logically, it is copied by the university management), plenum  • USČR: presidency, council	Data: Annual reports and the websites of relevant institutions
Persons in advisory and expert bodies	Here they are included by institution:  • GA CR: evaluation panels, branch commissions  • TA CR: program boards and commissions  • CAS: commissions and councils  • RVVI: commission  • RVŠ: working commissions and working groups  • CKR: working groups and commissions	Data: Annual reports and the websites of relevant institutions

Category	Definition	Link
Business sector	It includes all economic entities whose main activity is the market production of goods or services for sale to the general public at an economically significant price.	CZSO: Research and Development Indicators; p. 17 (link: https://www.czso.cz/ documents/10180/34193315/21100216. pdf/61cb264a-a498-4f91-9be4- a4df6aadf3e1?version=1.1)
Public enterprises	They include all business, financial institutions, quasi- corporations and non-profit institutions recognized as independent legal entities that are market producers or service providers under the control of units of government.	CZSO: Research and Development Indicators; p. 17 (link: https://www.czso.cz/ documents/10180/34193315/21100216. pdf/61cb264a-a498-4f91-9be4- a4df6aadf3e1?version=1.1)
National private enterprises	They include all non-financial enterprises, self-employed persons, financial institutions, quasi-corporations and non-profit institutions that are recognized as independent legal or natural persons and are market producers rather than service providers not under the control of government or non-resident institutional units.	CZSO: Research and Development Indicators; p. 17 (link: https://www.czso.cz/ documents/10180/34193315/21100216. pdf/61cb264a-a498-4f91-9be4- a4df6aadf3e1?version=1.1)
Enterprises under foreign control	They include all business, financial and quasi- corporations that are controlled by non-resident (foreign) entities (foreign affiliates). Mos often, these are subsidiaries of non-resident (foreign) parent corporations.	CZSO: Research and Development Indicators; p. 17 (link: https://www.czso.cz/ documents/10180/34193315/21100216. pdf/61cb264a-a498-4f91-9be4- a4df6aadf3e1?version=1.1)
Government sector	It includes bodies of state administration and self- government at all levels, with the exception of higher specialized higher education.	CZSO: Research and Development Indicators; p. 18 (link: https://www.czso.cz/ documents/10180/34193315/21100216. pdf/61cb264a-a498-4f91-9be4- a4df6aadf3e1?version=1.1)
Higher education sector	It includes all public and private universities, colleges and other institutions of post-secondary education, as well as all research institutes, experimental facilities, and clinics operating under the direct control of, or directed by, or affiliated with the organization of higher education.	CZSO: Research and Development Indicators; p. 19 (link: https://www.czso.cz/ documents/10180/34193315/21100216. pdf/61cb264a-a498-4f91-9be4- a4df6aadf3e1?version=1.1)

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# **EMPLOYEES IN RESEARCH AND DEVELOPMENT**

Table 1: Employees in research and development (HC)

4.00men         Momen Men (%)			Research	Research employees			Technical e	Technical employees			Other employees	ployees			<b>№</b>	Total	
18 845         50 691         27.1%         72.9%         10 626         25 143         29.7%         70.3%         7 876         8 459         48.2%         51.8%         37 347         84 293           17 992         47 201         27.6%         72.4%         10 548         25 603         29.2%         70.8%         7 651         9 049         45.8%         54.2%         35 382         81 693           17 313         46 377         27.2%         72.8%         10 544         24.90         32.6%         7 14,4%         7 556         9 041         45.5%         54.5%         35 382         81 693           16 461         45 505         26.6%         73.4%         10 524         24 093         30.4%         69.6%         7 457         9 406         44.5%         55.4%         35 28         8 169           16 055         26.6%         73.4%         9 525         20 690         30.8%         69.2%         7 710         44.1%         55.9%         30 269         69.0%           15 252         41 352         26.9%         7 3.1%         8 906         18 710         32.2%         67.8%         67.8%         64.5%         54.6%         32.7%         67.8%           14 537		Women	Men	Women (%)	(%) Men	Women		Women (%)		Women		Women (%)	Men (%)	Women	Men	Women (%)	Men (%)
17 992         47 201         27.6%         72.4%         10 548         25 603         29.2%         70.8%         7651         9 049         45.8%         54.2%         36 191         81 854           17 313         46 377         27.2%         72.8%         10 533         26 275         28 6%         71.4%         7536         9 041         45.5%         54.5%         35.8%         31 442         79 04           16 461         45 505         26.6%         73.4%         10 524         24 093         30.4%         69.6%         7457         9 406         44.2%         55.8%         34 442         79 044           16 005         43 784         26.8%         73.2%         69.6%         70.4%         70.27         8 74.6%         55.4%         30 50         9 50         30 50         9	2021	18 845	50 691	27.1%	72.9%	10 626	25 143	29.7 %	70.3%	7 876	8 459	48.2 %	51.8%	37 347	84 293	30.7%	% 8'.69
17313         46 377         27.2%         72.8%         10 533         26 275         28.6%         71.4%         7536         9 041         45.5%         54.5%         35.8%         35.8%         81693           16 461         45 505         26.6%         73.4%         10 524         24 093         30.4%         69.6%         7457         9 406         44.2%         55.8%         34 442         79 004           16 005         43 784         26.6%         70.4%         70.27         8 724         44.6%         55.4%         32 576         75 158           16 005         43 784         26.6%         70.4%         70.27         8 724         44.6%         55.4%         75 158         75 158         75 158         75 158         75 158         80 60 60 60 60 60 60 60 60 60 60 60 60 60	2020	17 992	47 201		72.4%	10 548	25 603	29.2 %	70.8%	7 651	9 049	45.8 %	54.2 %	36 191		30.7%	69.3 %
16 461         45 505         26.6%         73.4%         10 524         24 093         30.4%         69.6%         7457         9 406         44.2%         55.8%         34 442         79 004           16 005         43 784         26.8%         73.2%         95.43         22 649         29.6%         70.4%         7 027         8 724         44.6%         55.8%         32 576         75 158           16 005         43 784         26.8%         73.3%         9 225         20 690         30.8%         69.2%         6072         7710         44.1%         55.9%         30 269         69 606           15 252         41352         26.9%         73.1%         9 538         20 053         32.2%         60.2%         60.72         7710         44.1%         55.9%         30 269         69 606           15 252         41352         26.9%         73.1%         60.2% <t< th=""><th>2019</th><th>17 313</th><th>46 377</th><th></th><th>72.8%</th><th>10 533</th><th>26 275</th><th>28.6%</th><th>71.4%</th><th>7 536</th><th>9 041</th><th>45.5 %</th><th>54.5 %</th><th>35 382</th><th>81 693</th><th>30.2%</th><th>%8.69</th></t<>	2019	17 313	46 377		72.8%	10 533	26 275	28.6%	71.4%	7 536	9 041	45.5 %	54.5 %	35 382	81 693	30.2%	%8.69
16 005         43 784         26.8%         73.2%         9 543         22 649         29.6%         70.4%         7027         8724         44.6%         55.4%         35.56         75 158           14 971         41 206         26.7%         73.3%         9 225         20 690         30.8%         69.2%         6 072         7710         44.1%         55.9%         30 269         6 000           15 252         41 352         26.9%         73.1%         9 538         20 053         32.2%         67.8%         6 679         7710         44.1%         55.9%         30 269         60 606           14 815         39 679         27.2%         72.8%         6 159         7 225         46.0%         54.0%         30 100         67 233         67 20         7 60         67 20         7 60         67 233         7 60         67 20         7 60         8 60         60 60         8 60         60 60         8 60         6 18 70         7 128         6 67 2         7 109         7 128         8 60         18 710         32.4%         6 67 2         7 109         4 4 4 8         5 10         6 67 2         7 10         4 4 4 8         5 2 78         6 60 60         8 10         8 60 8         8 10	2018	16 461	45 505		73.4%	10 524	24 093	30.4%	%9.69	7 457	9 406	44.2 %	55.8%	34 442	79 004	30.4%	% 9.69
14971         41206         26.7%         73.3%         9225         20690         30.8%         69.2%         67.2%         7710         44.1%         55.9%         30.269         69.06           15.252         41352         26.9%         73.1%         9538         20.053         32.2%         67.8%         6332         7601         45.4%         54.6%         31.122         69.06           14815         39 679         27.2%         72.8%         9146         20.330         31.0%         69.0%         6159         7225         46.0%         54.0%         50.06         67.33         46.0%         67.8%         64.54         71.89         47.3%         52.7%         29.897         62.817           14815         32.2%         67.8%         64.54         71.89         47.3%         52.7%         52.8         70.1         67.83         67.8%         66.6%         59.44         7058         45.3%         27.46         59.78         77.46         59.783         77.46         59.783         77.46         59.783         77.46         59.783         77.46         59.783         77.46         59.783         77.46         59.783         77.46         59.783         77.46         59.783         77.46	2017	16 005	43 784		73.2 %	9 543	22 649	29.6%	70.4 %	7 027		44.6%	55.4%	32 576	75 158	30.2%	%8.69
15 252         41 352         26.9%         73.1%         9 538         20 053         32.2%         67.8%         6 332         7 601         45.4%         54.6%         31 122         69 006           14 815         39 679         27.2%         72.8%         9 146         20 330         31.0%         69.0%         6 159         7 225         46.0%         54.0%         50 20         67 233           14 815         39 679         27.2%         72.8%         9 146         20 330         31.0%         69.0%         6159         7 225         46.0%         54.0%         67 233         67 233           14 537         36 917         28.3%         71.7%         8 906         18 710         32.2%         67.6%         59.44         7 058         45.7%         59.7%         62 817           13 102         32 566         28.2%         71.1%         8 604         16 423         34.4%         65.6%         65.4%         65.4%         57.8         46.5%         53.5%         26 732         55 550           12 198         31 220         28.1%         71.1%         8 503         14 781         36.5%         65.4%         50.3%         46.5%         53.5%         52.73         50.515 </th <th>2016</th> <th>14 971</th> <th>41 206</th> <th></th> <th>73.3 %</th> <th>9 225</th> <th>20 690</th> <th></th> <th>69.2 %</th> <th>6 072</th> <th>7 710</th> <th>44.1%</th> <th>55.9%</th> <th>30 269</th> <th>909 69</th> <th>30.3%</th> <th>% 2.69</th>	2016	14 971	41 206		73.3 %	9 225	20 690		69.2 %	6 072	7 710	44.1%	55.9%	30 269	909 69	30.3%	% 2.69
14815         39 679         27.2%         72.8%         9146         20 330         31.0%         69.0%         6159         7225         46.0%         54.0%         30 120         67 233           14 537         36 917         28.3%         71.7%         8 906         18 710         32.2%         67.8%         6454         7 189         47.3%         52.7%         29 897         62 817           13 102         34 549         27.5%         72.5%         8 700         18 176         32.4%         67.6%         5944         7 058         45.7%         54.3%         27 746         59 783           12 936         32 566         28.2%         71.8%         8 604         16 423         34.4%         65.6%         5 192         6 161         45.7%         54.3%         26 732         59 783           12 936         31 220         28.1%         71.9%         8 194         15 473         34.6%         65.4%         5 030         5 789         46.5%         55.5         5 273         5 55.5           12 437         30 655         28.9%         71.1%         8 503         14 781         35.6%         63.5%         4 243         4 508         48.5%         51.5%         25.73 <td< th=""><th>2015</th><th>15 252</th><th>41 352</th><th></th><th>73.1%</th><th>9 538</th><th>20 053</th><th>32.2%</th><th>%8.29</th><th></th><th>7 601</th><th>45.4 %</th><th>54.6%</th><th>31 122</th><th>900 69</th><th>31.1%</th><th>% 6.89</th></td<>	2015	15 252	41 352		73.1%	9 538	20 053	32.2%	%8.29		7 601	45.4 %	54.6%	31 122	900 69	31.1%	% 6.89
14537         36 917         28.3%         71.7%         8 906         18710         32.2%         67.8%         6454         7 189         47.3%         52.7%         29 897         62 817           13 102         34 549         27.5%         72.5%         8 700         18 176         32.4%         67.6%         5944         7 058         45.7%         52.3%         27 746         59 783           12 936         32 966         28.2%         71.8%         8 604         16 423         34.4%         65.6%         5 192         6 161         45.7%         54.3%         27 73         55 550           12 936         32 966         28.2%         71.1%         8 604         16 423         34.4%         65.6%         5 192         6 161         45.7%         54.3%         27 73         55 550           12 13 93         31 627         28.9%         71.1%         8 503         14 781         36.5%         63.4%         4 243         4 50.8         46.0%         54.0%         25 273         50 515           12 613         31 627         28.5%         71.5%         7 84.3         13 231         38.9%         61.1%         4 243         4 50.8         45.0%         25 773         50 54	2014	14815	39 675		72.8%	9 146	20 330	31.0%	% 0.69		7 225	46.0%	54.0%	30 120	67 233	30.9%	69.1%
13 102         34 549         27.5 %         72.5 %         8 700         18 176         32.4 %         67.6 %         5 944         7 058         45.7 %         54.3 %         27.746         59 783           12 936         32.966         28.2 %         71.8 %         8 604         16 423         34.4 %         65.6 %         5 192         6 161         45.7 %         54.3 %         26 732         55 55 0           12 936         31 220         28.1 %         71.9 %         8 194         15 473         34.6 %         65.4 %         5 030         5 789         46.5 %         53.5 %         25 273         50 515           12 13 83         28.5 %         71.1 %         8 503         14 781         36.5 %         63.4 %         4 243         4 508         46.0 %         54.0 %         52 73         50 515           12 613         31 627         28.5 %         71.7 %         8 413         13 231         38.9 %         61.1 %         4 503         4 503         50.6 %         24 721         49 78           12 034         28.38         71.5 %         8 099         13 239         38.0 %         62.0 %         4 200         4 147         49.1 %         50.9 %         23 394         45 768	2013	14 537	36 917		71.7%	906 8	18 710	32.2%	%8.79	6 454	7 189	47.3 %	52.7%	29 897	62 817	32.2%	67.8%
12 936         32 966         28.2%         71.8%         8 604         16 423         34.4%         65.6%         5 192         6 161         45.7%         54.3%         26 732         55 550           12 198         31 220         28.1%         71.9%         8 194         15 473         34.6%         65.4%         5030         5789         46.5%         53.5%         25 273         52 482           12 437         30 655         28.9%         71.1%         8 503         14 781         36.5%         63.4%         4 243         4 508         48.5%         51.5%         25 273         50 515           12 613         31 627         28.5%         71.5%         7 865         13 652         36.6%         63.4%         4 243         4 508         48.5%         51.5%         24 721         49 783           12 034         30 504         28.3%         71.7%         8 413         13 231         38.9%         61.1%         4 395         4 503         32.8%         50.6%         24 721         49 768           11 295         28 382         28.5%         71.5%         7817         11 834         39.8%         60.2%         4 220         3964         51.6%         48.4%         4 51.4	2012	13 102	34 546		72.5%	8 700	18 176	32.4%	% 9'.29	5 944	7 058	45.7 %	54.3%	27 746	59 783	31.7%	68.3 %
12 198         31 220         28.1%         71.9%         8 194         15 473         34.6%         65.4%         5 030         5 789         46.5%         53.5%         25 421         5 2 482           12 437         30 655         28.9%         71.1%         8 503         14 781         36.5%         63.5%         4 333         5 078         46.0%         54.0%         55.73         50 515           12 437         30 655         28.5%         71.5%         7 865         13 652         36.6%         63.4%         4 243         4 508         48.5%         51.5%         24 721         49 787           12 034         30 504         28.3%         71.7%         8 413         13 231         38.9%         61.1%         4 395         4 503         32.8%         50.6%         24 843         48 238           11 295         28 382         28.5%         71.5%         8 099         13 239         38.0%         60.2%         4 220         3 964         51.6%         48.4%         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148         45 148	2011	12 936	32 966		71.8%	8 604	16 423	34.4%	% 9.59		6 161	45.7 %	54.3%	26 732	55 550	32.5 %	67.5%
12 43730 65528.9%71.1%8 50314 78136.5%63.5%4 3335 07846.0%54.0%54.0%55.7350 51512 61331 62728.5%71.5%7 86513 65236.6%63.4%4 2434 50848.5%51.5%24 72149 78712 03430 50428.3%71.7%8 41313 23138.9%61.1%4 3954 50332.8%50.6%24 84348 23811 29528 38228.5%71.5%8 09913 23938.0%60.2%4 2203 96451.6%48.4%22 8654 2514	2010	12 198	31 220		71.9%	8 194	15 473	34.6%	65.4 %	5 030	5 789	46.5 %	53.5%	25 421	52 482	32.6%	67.4%
12 613         31 627         28.5%         71.5%         7 865         13 652         36.6%         63.4%         4 243         4 508         48.5%         51.5%         24 721         49 787           12 034         30 504         28.3%         71.7%         8 413         13 231         38.9%         61.1%         4 395         4 503         32.8%         50.6%         24 843         48 238           11 295         28 382         28.5%         71.5%         8 099         13 239         38.0%         62.0%         4 000         4 147         49.1%         50.9%         23 394         45 768           10 827         26 716         28.8%         71.2%         7 817         11 834         39.8%         60.2%         4 220         3 964         51.6%         48.4%         22 865         42 514	5000	12 437	30 655		71.1%	8 503	14 781	36.5%	63.5 %	4 333	5 078	46.0%	54.0%	25 273	50 515	33.3 %	% 2.99
12 034       30 504       28.3%       71.7%       8413       13 231       38.9%       61.1%       4 395       4 503       32.8%       50.9%       24 843       48 238         11 295       28 382       28.5%       71.5%       8 099       13 239       38.0%       62.0%       4 000       4 147       49.1%       50.9%       23 394       45 768         10 827       26 716       28.8%       71.2%       7 817       11 834       39.8%       60.2%       4 220       3 964       51.6%       48.4%       22 865       42 514	2008	12 613	31 627		71.5%	7 865	13 652	36.6%	63.4%	4 243	4 508	48.5%	51.5%	24 721	49 787	33.2 %	%8.99
11 295 28 382 28.5% 71.5% 8 099 13 239 38.0% 62.0% 4 000 4 147 49.1% 50.9% 23 394 45 768 10 827 26 716 28.8% 71.2% 7 817 11 834 39.8% 60.2% 4 220 3 964 51.6% 48.4% 22 865 42 514	2007	12 034	30 504		71.7%	8 413	13 231	38.9 %	61.1%	4 395	4 503	32.8%	% 9.03	24 843	48 238	34.0%	%0.99
10827         26716         28.8%         71.2%         7817         11834         39.8%         60.2%         4220         3964         51.6%         48.4%         22.865         42.514	5006	11 295	28 382		71.5%	8 099	13 239	38.0 %	62.0%	4 000	4 147	49.1%	20.9 %	23 394	45 768	33.8%	66.2%
	2002	10 827	26 716		71.2%	7817	11 834	39.8 %	60.2%	4 220	3 964	51.6%	48.4 %	22 865	42 514	35.0%	%0.59

Source: CZSO – Research and Development Indicators

Table 2: Employees in research and development (FTE)

	<u>æ</u>	<b>Research</b>	Research employees			Technical employees	mployees			Other employees	nployees			Total	ĮĘ.	
	Women	Men	Women (%)	Men (%)	Women	Men	Women (%)	Men (%)	Women	Men	Women (%)	Men (%)	Women	Men V	Women (%)	Men (%)
2021	11 524	36 556	24.0%	% 0.92	7 330	18 622	28.2 %	71.8%	5 318	5 322	20.0%	20.0%	24 171	90 200	28.5%	71.5%
2020	10 665	33 541	24.1%	75.9%	7 255	18 691	28.0%	72.0%	5 240	2 566	48.5 %	51.5%	23 160	57 799	28.6%	71.4%
2019	10 154	32 347	23.9%	76.1%	7 406	18 340	28.8%	71.2%	5 2 5 9	5 740	47.8 %	52.2 %	22 819	56 426	28.8%	71.2 %
2018	9 543	31 655	23.2 %	%8.92	6 911	16 408	29.6%	70.4%	4 978	5 474	47.6%	52.4%	21 432	53 538	28.6%	71.4%
2017	0906	30 121	23.1 %	%6.97	5 918	14 909	28.4%	71.6%	4 612	5 116	47.4 %	25.6%	19 590	50 146	28.1%	71.9%
2016	8 610	28 728	23.1 %	%6.92	5 813	13 609	29.9%	70.1%	4 237	4 786	47.0%	53.0%	18 660	47 123	28.4%	71.6%
2015	8 923	29 158	23.4 %	%9'92	6 102	13 248	31.5%	68.5 %	4 391	4 611	48.8 %	51.2%	19 416	47 017	29.2 %	70.8%
2014	8 701	27 338	24.1 %	75.9%	90 9	13 781	30.6%	69.4 %	4 154	4 404	48.5 %	51.5%	18 921	45 523	29.4%	% 9.02
2013	8 401	25 870	24.5 %	75.5%	5 921	13 012	31.3%	68.7 %	4 191	4 581	47.8 %	52.2%	18 513	43 463	29.9%	70.1%
2012	8 212	25 006	24.7 %	75.3%	5 832	12 576	31.7%	68.3 %	4 090	4 615	47.0%	23.0%	18 133	42 196	30.1%	% 6.69
2011	969 /	22 985	25.1%	74.9%	5 485	11 624	32.1%	% 6.79	3 591	4 315	45.4%	54.6%	16 772	38 925	30.1 %	% 6.69
2010	7 429	21 799	25.4 %	74.6%	5 141	10 830	32.2%	%8.79	3 369	3 723	47.5 %	52.5%	15 939	36 352	30.5 %	% 5.69
2009	7 490	21 269	26.0%	74.0%	5 395	10 610	33.7%	% 8.99	2 938	3 259	47.4%	25.6%	15 822	35 138	31.0%	80.69
2008	7 559	22 226	25.4 %	74.6%	5 259	9 874	34.8 %	65.2 %	2 888	3 002	49.0%	51.0%	15 707	35 101	30.9 %	69.1%
2007	7 093	20 785	25.4 %	74.6%	5 641	9 789	36.6%	63.4%	2 916	2 967	49.6%	50.4 %	15 650	33 542	31.8%	68.2 %
2006	6 652	19 615	25.3%	74.7%	5 672	10 168	35.8 %	64.2 %	2 731	2 890	48.6%	51.4%	15 056	32 673	31.5%	89.5%
2005	6 349	17 820	26.3%	73.7%	5 153	8 620	37.4 %	62.6%	2 633	2 795	48.5%	51.5%	14 135	29 235	35.6%	67.4%

## IDEAL TYPICAL CAREER PATH IN RESEARCH

Table 3: Students and graduates of master's and doctoral programmes and researchers (HC)

	,														
	Mast	Master's students	ents	Mast	Master's graduates	tes	Doct	<b>Doctoral students</b>	ints	Doct	Doctoral graduates	ates		Researchers	
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men \	Women (%)
2021	60 524	38 966	% 8.09 9	15 229	10 158	%0.09	9 278	11 548	44.6%	894	1 145	43.8 %	18 845	50 691	27.1%
2020	59 417	38 679	% 9.09 6	16 320	11 051	89.69	698 6	11 679	44.5 %	814	981	45.3 %	17 992	47 201	27.6%
2019	58 430	38 305	5 60.4 %	16 825	11 244	86.65	9 153	11 211	44.9%	366	1 261	44.0 %	17 313	46 377	27.2%
2018	59 748	39 412	2 60.3%	18 097	11855	60.4%	9 326	11 488	44.8%	1 027	1 293	44.3%	16 461	45 505	26.6%
2017	62 270	40 873	3 60.4%	18 611	12 500	29.8%	9 742	11 853	45.1%	955	1 384	40.8%	16 005	43 784	26.8%
2016	64 365	42 763	3 60.1%	19 560	13 070	% 6.65	10 150	12 486	44.8 %	994	1 289	43.5%	14 971	41 206	26.7 %
2015	65 572	43 981	1 59.9%	20 980	13 626	% 9.09	10 274	13 004	44.1%	1 048	1 313	44.4%	15 252	41 352	26.9%
2014	69 199	45 809	9 60.2%	22 020	14 094	61.0%	10 560	13 093	44.6 %	1 028	1 377	42.7%	14 815	39 679	27.2 %
2013	71 700	46 856	5 60.5%	22 669	14 260	61.4%	10 755	13 375	44.6%	1 018	1 332	43.3%	14 537	36 917	28.3 %
2012	73 848	47 581	%8.09	22 957	14 727	% 6:09	10 710	13 502	44.2 %	1 093	1 507	42.0%	13 102	34 549	27.5 %
2011	75 076	48 705	9 60.7 %	22 802	14 813	% 9.09	10840	14 193	43.3%	1 032	1 337	43.6%	12 936	32 966	28.2 %
2010	74 801	49 304	4 60.3 %	21 473	14 181	60.2 %	10881	14 398	43.0%	855	1 301	39.7 %	12 198	31 220	28.1%
2009	73 820	48 977	7 60.1%	19 952	13 277	% 0.09	10 566	14 340	42.4%	886	1 421	38.4 %	12 437	30 655	28.9 %
2008	71 077	46 458	3 60.5%	17 793	13 064	57.7%	9 921	14 006	41.5%	876	1 425	38.1 %	12 613	31 627	28.5%
2007	68 932	45 788	3 60.1%	15 903	11 883	57.2%	9 416	13 978	40.2%	836	1 390	37.6%	12 034	30 504	28.3%
2006	67 707	45 757	7 59.7 %	14 443	11 349	26.0%	9 015	13 716	39.7 %	724	1 286	36.0%	11 295	28 382	28.5%
2005	66 954	48 294	4 58.1%	13 048	10 612	55.1%	8 377	13 378	38.5 %	699	1 240	35.0%	10 827	26 716	28.8%

Source: MEYS - Performance indicators of public and private universities in the Czech Republic; CZSO - Research and Development Indicators.

Table 4: Students and graduates of master's and doctoral programmes and researchers (HC) in the natural sciences

	Mast	Master's students	ints	Ma	Master's graduates	ates	Doc	Doctoral students	nts	Doct	Doctoral graduates	ates		Researchers	
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	( Women	Men	Women (%)
2021	2 941	1 864	61.2 %	837	468	64.1%	2 393	2 280	51.2 %	246	253	49.3 %	5 743	17 957	24.2%
2020	2 577	1 601	61.7%	863	465	65.0%	2 313	2 190	51.4%	220	234	48.5 %	5 020	15 195	24.8%
2019	2 370	1 368	63.4%	838	435	65.8%	2 092	2 010	51.0%	271	292	48.1 %	4 950	14 432	25.5%
2018	2 369	1 286	64.8%	950	490	%0.99	2 201	2 053	51.7 %	245	286	46.1%	4 665	14 572	24.2 %
2017	2 407	1 299	64.9%	806	489	65.0%	2 196	2 124	20.8%	269	294	47.8%	4 564	13 647	25.1%
2016	2 470	1 410	63.7%	919	525	63.6%	2 258	2 158	51.1%	249	245	50.4%	4 213	12 433	25.3 %
2015	2 468	1 469	62.7%	902	520	63.5 %	2 277	2 172	51.2 %	233	248	48.4%	4 222	12 154	25.8%
2014	2 473	1 525	61.9%	913	482	65.4 %	2 335	2 187	51.6%	254	234	52.0%	4 143	11 971	25.7 %
2013	2 485	1 455	63.1%	930	550	62.8 %	2 423	2 146	53.0%	239	244	49.5%	3 943	10 628	27.1%
2012	2 434	1 446	62.7%	928	561	62.3 %	2 3 1 2	2 118	52.2%	234	264	47.0%	3 694	9 582	27.8%
2011	2 487	1 537	61.8%	920	528	63.5 %	2 246	2 108	51.6%	255	256	49.9 %	3 432	8 956	27.7 %
2010	2 418	1 523	61.4%	887	551	61.7 %	2 196	2 084	51.3%	219	255	46.2 %	2 731	7 524	26.6%
2009	2 415	1 499	61.7%	998	492	63.8 %	2 186	2 068	51.4%	221	243	47.6%	2 623	6 837	27.7 %
2008	2 352	1 429	62.2 %	269	463	60.1%	2 083	2 063	50.2%	203	274	42.6%	2 835	7 406	27.7%
2007	2 090	1 322	61.3%	720	479	60.1%	1 993	2 108	48.6%	213	233	47.8 %	2 523	7 069	26.3%
2006	1 910	1 341	58.8 %	640	528	54.8%	1 975	2 183	47.5%	206	265	43.7 %	2 519	7 216	25.9%
2005	1 882	1 537	, 55.0%	602	209	54.2 %	1 850	2 125	46.5 %	185	266	41.0%	2 432	9 9 9 9	26.8%

Source: MEYS - Performance indicators of public and private universities in the Czech Republic; CZSO - Research and Development Indicators.

Table 5: Students and graduates of master's and doctoral programmes and researchers (HC) in the technical sciences

			-	B. A A.									•		
	Mast	Master's students	nts	Maste	Master's graduates	ites	מסט	Doctoral students	nts	מסט	Doctoral graduates	ares	_	Kesearcners	
Wor	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	4 235	10 990	27.8%	1 844	3 977	31.7%	1 483	4 074	26.7 %	128	444	22.4 %	3 618	21 563	14.4%
2020	4 757	11 445	29.4 %	2 143	4 507	32.2%	1 541	4 240	26.7 %	127	322	28.3 %	3 587	20 781	14.7%
2019	5 314	12 048	30.6%	2 157	4 687	31.5%	1 574	4 140	27.5%	160	445	26.4 %	3 288	20 895	13.6%
2018	2 760	12 902	30.9%	2 268	4 927	31.5%	1 596	4 243	27.3 %	182	202	26.5%	3 144	20 191	13.5%
2017	6 017	13 580	30.7%	2 279	5318	30.0%	1 612	4 488	26.4 %	140	533	20.8%	2 931	19 252	13.2%
2016	6 095	14 447	29.7%	2 293	5 433	29.7 %	1 642	4 880	25.2 %	153	499	23.5%	2 695	18 410	12.8%
2015	6 021	15 026	28.6%	2 359	5 737	29.1%	1 712	5 244	24.6 %	192	528	26.7%	2 999	19 093	13.6%
2014	6 049	15 693	27.8%	2 347	5 850	28.6%	1 795	5 291	25.3 %	175	548	24.2%	2 882	17 780	13.9%
2013	6 213	16210	27.7%	2 397	5 994	28.6%	1817	5 433	25.1%	164	490	25.1%	2 779	16 475	14.4%
2012	988 9	16 447	27.8%	2 408	5 988	28.7 %	1812	5 459	24.9%	169	577	22.7%	2 349	16 114	12.7 %
2011	6 345	16725	27.5 %	2 401	6 337	27.5 %	1 796	5 705	23.9%	148	480	23.6%	2 178	14 746	12.9%
2010	6 223	17 153	26.6%	2 162	5 917	26.8%	1 796	5 836	23.5%	144	484	22.9%	2 258	14 487	13.5 %
2009	6 044	16 949	26.3 %	1 834	5 528	24.9 %	1 775	5 725	23.7%	177	292	23.8%	2 499	14 425	14.8 %
2008	5 032	15 572	24.4 %	2 088	6 122	25.4%	1 725	5 564	23.7%	168	557	23.2 %	2 629	15 124	14.8%
2007	4 912	15 836	23.7 %	1 768	5 445	24.5%	1 734	5 615	23.6%	166	552	23.1%	2 530	14 121	15.2%
2006	900 9	16 226	23.6%	1 612	4 987	24.4%	1 640	5 545	22.8%	125	510	19.7 %	1 953	12 316	13.7%
2005	5 769	18 464	23.8 %	1 345	4 407	23.4%	1 554	5 548	21.9%	101	471	17.7 %	1 998	11 315	15.0%

Source: MEYS - Performance indicators of public and private universities in the Czech Republic; CZSO - Research and Development Indicators.

Table 6: Students and graduates of master's and doctoral programmes and researchers (HC) in the agricultural sciences

	Masi	Master's students	nts	Mas	Master's graduates	ates	Doct	Doctoral students	nts	Docto	Doctoral graduates	ıates		Researchers	
_	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men \	Women (%)
2021	2 364	1 191	% 5'99	628	374	62.7%	406	446	47.7%	47	48	3 49.5%	1 231	1 355	47.6%
2020	2 511	1 245	% 6.99	737	409	64.3%	424	438	49.2 %	37	26	5 58.7 %	1 222	1 447	45.8%
2019	2 451	1 193	8 67.3 %	750	427	63.7%	420	387	52.0%	52	52	5 50.0 %	1 135	1 197	48.7%
2018	2 576	1 253	8 67.3%	826	457	64.4%	402	382	51.3 %	53	52	50.5%	1 014	1 305	43.7%
2017	2 706	1 357	%9'99 '	292	460	62.4%	402	359	52.8%	09	48	3 55.6%	1 076	1 529	41.3%
2016	2 762	1 392	% 999	727	470	% 2'09	431	381	53.1%	26	49	9 53.3%	896	1 440	40.2 %
2015	2 663	1 376	65.9%	785	434	64.4%	448	387	53.7 %	63	46	5 57.8%	206	1 405	39.2 %
2014	2 732	1 354	%6'99	755	458	62.2 %	464	360	26.3 %	73	69	9 51.4%	937	1 431	39.6%
2013	2 814	1 346	67.6%	786	476	62.3 %	441	389	53.1%	69	99	3 50.4%	894	1 478	37.7%
2012	2 834	1 345	67.8%	165	464	62.2 %	450	409	52.4%	100	86	5 53.8%	783	1 385	36.1%
2011	2 738	1 349	%0'.29	800	432	64.9 %	543	514	51.4%	83	9/	5 52.2%	914	1 352	40.3 %
2010	2 723	1 310	0 67.5 %	780	453	63.3 %	548	526	51.0%	63	70	47.4 %	995	1 600	38.4 %
2009	2 777	1 341	67.4%	738	478	% 2'09	516	533	49.2%	44	99	3 39.3 %	1 076	1 651	39.5 %
2008	2 767	1 355	67.1%	684	452	60.2%	448	200	47.3%	29	69	9 49.3 %	1 160	1 751	39.9%
2007	2 749	1 475	65.1%	708	461	%9.09	419	505	45.5%	61	101	37.7%	1 124	1 844	37.9%
2006	2 785	1 573	8 63.9 %	609	472	26.3%	440	499	46.9 %	26	77	7 42.1%	1 041	1 631	39.0%
2005	2 688	1 722	61.0%	474	383	55.3%	431	207	45.9%	59	16	5 43.7 %	1 061	1 649	39.1%

Source: MEYS - Performance indicators of public and private universities in the Czech Republic; CZSO - Research and Development Indicators.

Table 7: Students and graduates of master's and doctoral programmes and researchers (HC) in the medical sciences

	Mast	Master's students	ints	Mast	Master's graduates	ites	Doct	Doctoral students	nts	Doct	Doctoral graduates	ates		Researchers	
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	14 605	6 564	% 0.69	2 493	975	71.9%	1 542	1 443	51.7%	145	105	28.0%	4 140	4 493	48.0%
2020	14 091	6 476	68.5 %	2 440	962	71.7%	1 522	1 429	51.6%	118	101	53.9 %	3 981	4 281	48.2%
2019	13 397	6 276	68.1%	2 313	860	72.9%	1 492	1 375	52.0%	124	98	85.9%	3 721	4 116	47.5%
2018	12 798	6 134	%9'.29	2 483	859	74.3%	1 379	1 285	51.8%	139	98	61.8%	3 436	3 725	48.0%
2017	13 116	6 094	. 68.3%	2 526	906	73.6%	1 476	1 291	53.3 %	130	110	54.2%	3 471	3 736	48.2%
2016	13 181	6 162	68.1%	2 402	904	72.7 %	1 519	1 319	53.5 %	114	110	80.9%	3 116	3 410	47.7 %
2015	13 028	9 067	68.2%	2 407	795	75.2 %	1 518	1 352	52.9 %	124	97	56.1%	3 265	3 340	49.4 %
2014	12 963	5 931	%9'89	2 458	844	74.4%	1 499	1 310	53.4 %	127	134	. 48.7 %	3 179	3 358	48.6%
2013	13 072	5 875	%0.69	2 325	772	75.1%	1 484	1 345	52.5%	139	133	51.1%	3 250	3 335	49.4 %
2012	12 707	5 751	%8.89	2 395	834	74.2 %	1 520	1 366	52.7%	112	114	49.6%	2 866	2 794	20.6%
2011	12 542	5 794	. 68.4 %	2 314	793	74.5 %	1 460	1 392	51.2%	120	134	. 47.2 %	3 179	3 3 2 6	48.6 %
2010	12 054	5 590	68.3 %	2 273	790	74.2 %	1 465	1 428	20.6%	97	122	44.3 %	3 201	3 399	48.5 %
2009	11 788	5 424	. 68.5 %	2 347	718	% 9'92	1 454	1 478	49.6%	109	134	44.9%	3 352	3 646	47.9 %
2008	11 742	5 222	69.2 %	1 938	679	75.5%	1 349	1 531	46.8%	93	132	41.3 %	3 058	3 289	48.2 %
2007	11 432	5 106	69.1%	1 771	620	74.1%	1 243	1 490	45.5%	97	136	41.6%	2 868	3 263	46.8%
2006	11 164	5 016	% 0.69	1 674	989	72.5%	1 154	1 455	44.2 %	72	107	40.2 %	2 752	3 030	47.6%
2005	10 594	4 742	69.1 %	1 522	675	69.3 %	1 032	1 353	43.3 %	73	110	39.9 %	2 521	2 942	46.1%

Source: MEYS - Performance indicators of public and private universities in the Czech Republic; CZSO - Research and Development Indicators.

Table 8: Students and graduates of master's and doctoral programmes and researchers (HC) in the social sciences

		Master 3 stadelits	Mast	Master's graduates	es	טסכו	Doctoral students	nts	Doct	Doctoral graduates	ates	<u></u>	Researchers	
women	en Men	(%) Momen	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
<b>2021</b> 31 943		% 2.99	8 1 7 8	3 772	68.4%	1 924	1 923	20.0%	203	181	52.9 %	2 434	3 101	44.0%
<b>2020</b> 31 031	_	5 616 66.5 %	8 772	4 021	%9'89	2 016	1 997	50.2 %	198	180	52.4 %	2 507	3 223	43.8%
<b>2019</b> 30 346		5 073 66.8 %	9 242	4 153	%0.69	2 053	1 926	51.6%	237	225	51.3 %	2 576	3 441	42.8%
2018 31 3	378 15	15 377 67.1%	686 6	4 393	69.5%	2 141	2 069	% 6:09	238	239	49.9%	2 649	3 534	42.8%
<b>2017</b> 32 893	_	6 028 67.2 %	10 464	4 641	69.3%	2 335	2 099	52.7 %	217	249	46.6%	2 503	3 484	41.8%
<b>2016</b> 34 368	•	16816 67.1%	11 528	4 961	% 6.69	2 424	2 222	52.2 %	241	216	52.7%	2 507	3 435	42.2 %
<b>2015</b> 35 730	•	17 375 67.3 %	12 824	5 392	70.4%	2 404	2 268	51.5%	249	240	20.9%	2 390	3 225	42.6%
<b>2014</b> 39 308		18 544 67.9%	13 728	5 677	70.7 %	2 497	2 333	51.7%	254	240	51.4%	2 376	3 196	42.6%
2013 41 2	227 19	19 199 68.2 %	14 302	5 671	71.6%	2 587	2 368	52.2%	260	270	49.1%	2 364	3 117	43.1%
<b>2012</b> 43 418		19 723 68.8%	14 521	6 134	70.3 %	2 620	2 471	51.5%	319	282	53.1%	1 862	2 596	41.8%
<b>2011</b> 44 680		20 476 68.6 %	14 563	5 955	71.0%	2 834	2 789	50.4%	253	250	50.3 %	1 991	2 720	42.3 %
<b>2010</b> 45 174		20 878 68.4 %	13 686	5 731	70.5%	2 895	2 877	50.2%	213	226	48.5 %	1 342	1 958	40.7 %
2009 44 (	44 675 20	20 838 68.2 %	12 722	5 349	70.4 %	2 765	2 905	48.8%	212	276	43.4 %	1 437	2 068	41.0%
2008 43 3	43 309 19	% 5.89 096 61	11 092	4 754	70.0%	2 583	2 762	48.3%	220	246	47.2 %	1711	2 247	43.2%
<b>2007</b> 41 907	19	129 68.7 %	9 685	4 210	% 2.69	2 398	2 694	47.1%	194	249	43.8%	1 783	2 489	41.7%
<b>2006</b> 41 046	_	8 610 68.8 %	8 7 9 8	4 052	68.5%	2 274	2 550	47.1%	177	212	45.5 %	1879	2 516	42.8%
<b>2005</b> 40 343	18	718 68.3 %	7 932	3 934	%8.99	2 096	2 431	46.3 %	162	212	43.3 %	1741	2 565	40.4%

Source: MEYS - Performance indicators of public and private universities in the Czech Republic; CZSO - Research and Development Indicators.

Table 9: Students and graduates of master's and doctoral programmes and researchers (HC) in the humanities

	Mast	Master's students	nts	Mas	Master's graduates	tes	Doc	Doctoral students	nts	Doct	Doctoral graduates	ates		Researchers	
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	4 436	2 260	66.2 %	1 249	265	%8'.29	1 530	1 382	52.5%	125	114	1 52.3%	1 679	2 2 2 2 2 2	43.0%
2020	4 450	2 296	% 0.99	1 365	684	%9.99	1 553	1 385	52.9 %	114	118	3 49.1%	1 675	2 274	42.4%
2019	4 552	2 347	% 0.99	1 525	682	69.1%	1 522	1 373	52.6%	145	146	49.8 %	1 642	2 296	41.7%
2018	4 867	2 460	66.4%	1 581	729	68.4%	1 607	1 456	52.5 %	170	125	57.6%	1 553	2 179	41.6%
2017	5 131	2 515	67.1%	1 671	989	%6.07	1 721	1 492	23.6%	139	150	48.1%	1 461	2 135	40.6%
2016	5 489	2 536	68.4%	1 691	777	% 5'89	1 876	1 526	55.1 %	181	170	51.6%	1 473	2 079	41.5%
2015	5 662	2 668	%0.89	1 700	748	69.4 %	1 915	1 581	54.8 %	187	154	54.8%	1 469	2 135	40.8%
2014	5 674	2 762	67.3%	1 819	783	% 6.69	1 970	1 612	22.0 %	145	152	48.8%	1 299	1 941	40.1 %
2013	5 889	2 771	68.0%	1 929	797	70.8%	2 003	1 694	54.2%	147	127	, 53.6%	1 307	1 885	41.0%
2012	6 119	2 869	68.1%	1 940	746	72.2 %	1 996	1 679	54.3%	159	184	46.4%	1 548	2 078	42.7 %
2011	6 284	2 824	% 0.69	1 804	768	70.1%	1961	1 685	53.8%	173	141	55.1%	1 243	1 835	40.4 %
2010	6 2 0 9	2 850	68.5 %	1 685	739	% 5.69	1 981	1 647	54.6%	119	144	45.2 %	1 671	2 253	42.6%
2009	6 121	2 926	% L' 29	1 445	712	% 0.79	1870	1 631	53.4%	123	133	48.0%	1 450	2 028	41.7 %
2008	5 875	2 920	% 8.99	1 294	644	%8.99	1 733	1 586	52.2%	125	147	, 46.0%	1 220	1810	40.3%
2007	5 842	2 920	% 2'99	1 251	899	65.2%	1 629	1 569	20.9%	105	119	46.9%	1 206	1 718	41.2%
2006	2 796	2 991	% 0.99	1110	674	62.2%	1 532	1 484	50.8%	88	115	5 43.3 %	1 150	1 672	40.8%
2005	5 678	3 111	64.6 %	1 173	704	62.5%	1 414	1 414	20.0%	89	105	5 45.9%	1 074	1 589	40.3%

Zdroj: MŠMT – Statistika výkonových ukazatelů veřejných a soukromých vysokých škol ČR; ČSÚ – Ukazatele výzkumu a vývoje

Table 10: Researchers by sector (HC)

	Nat	Natural Sciences	suces	Tec	Technical Sciences	ences	Agric	<b>Agricultural Sciences</b>	iences	Mec	<b>Medical Sciences</b>	nces	Sc	Social Sciences	ıces	_	Humanities	
	Women	Men	Women (%) Women	Women	Men	Women (%)	Women	Men \	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	5 743	17 957	24.2%	3 618	21 563	14.4%	1 231	1 355	47.6%	4 140	4 493	48.0%	2 434	3 101	44.0%	1 679	2 222	43.0%
2020	5 020	15 195	24.8%	3 587	20 781	14.7%	1 222	1 447	45.8%	3 981	4 281	48.2%	2 507	3 223	43.8%	1 675	2 274	42.4%
2019	4 950	14 432	25.5%	3 288	20 895	13.6%	1 135	1 197	48.7%	3 721	4 116	47.5%	2 576	3 441	42.8%	1 642	2 296	41.7%
2018	4 665	14 572	24.2%	3 144	20 191	13.5%	1 014	1 305	43.7%	3 436	3 725	48.0%	2 649	3 534	42.8%	1 553	2 179	41.6%
2017	4 564	13 647	25.1%	2 931	19 252	13.2%	1 076	1 529	41.3%	3 471	3 736	48.2%	2 503	3 484	41.8%	1 461	2 135	40.6%
2016	4 213	12 433	25.3%	2 695	18 410	12.8%	896	1 440	40.2%	3 116	3 410	47.7%	2 507	3 435	42.2%	1 473	2 079	41.5%
2015	4 222	12 154	25.8%	2 999	19 093	13.6%	907	1 405	39.2%	3 265	3 340	49.4%	2 390	3 225	42.6%	1 469	2 135	40.8%
2014	4 143	11 971	25.7%	2 882	17 780	13.9%	937	1 431	39.6%	3 179	3 358	48.6%	2 376	3 196	42.6%	1 299	1 941	40.1%
2013	3 943	10 628	27.1%	2 779	16 475	14.4%	894	1 478	37.7%	3 250	3 335	49.4%	2 364	3 117	43.1%	1 307	1 885	41.0%
2012	3 694	9 582	27.8%	2 349	16 114	12.7%	783	1 385	36.1%	2 866	2 794	20.6%	1 862	2 596	41.8%	1 548	2 078	42.7%
2011	3 432	8 956	27.7%	2 178	14 746	12.9%	914	1 352	40.3%	3 179	3 356	48.6%	1 991	2 720	42.3%	1 243	1835	40.4%
2010	2 731	7 524	26.6%	2 258	14 487	13.5%	995	1 600	38.4%	3 201	3 399	48.5%	1 342	1958	40.7%	1 671	2 253	45.6%
2009	2 623	6 837	27.7%	2 499	14 425	14.8%	1 076	1 651	39.5%	3 352	3 646	47.9%	1 437	2 068	41.0%	1 450	2 028	41.7%
2008	2 835	7 406	27.7%	2 629	15 124	14.8%	1 160	1 751	39.9%	3 058	3 289	48.2%	1711	2 2 4 7	43.2%	1 220	1810	40.3%
2007	2 523	2 069	26.3%	2 530	14 121	15.2%	1 124	1 844	37.9%	2 868	3 263	46.8%	1 783	2 489	41.7%	1 206	1 718	41.2%
2006	2 519	7 216	25.9%	1 953	12 316	13.7%	1 041	1 631	39.0%	2 752	3 030	47.6%	1 879	2 516	42.8%	1 150	1 672	40.8%
2005	2 432	9 6 6 5 6	26.8%	1 998	11 315	15.0%	1 061	1 649	39.1%	2 521	2 942	46.1%	1 741	2 565	40.4%	1 074	1 589	40.3%

Source: CZSO – Research and Development Indicators.

Table 11: Researchers by sector (FTE)

	Na	Natural Sciences	ences	Tec	Technical Sciences	iences	Agric	<b>Agricultural Sciences</b>	ciences	M	Medical Sciences	ences	S	Social Sciences	ences		Humanities	ies
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	4 302	13 872	23.7%	2 427	17 132	12.4%	977	983	49.8%	1 737	1 686	20.7%	1 073	1 417	43.1%	1 009	1 467	40.7%
2020	3 792	11 741	24.4%	2 437	16 336	13.0%	801	1003	44.4%	1 630	1 608	50.3%	1 017	1 393	42.2%	686	1 461	40.4%
2019	3 626	10 988	24.8%	2 264	16 092	12.3%	705	802	46.7%	1 533	1 588	49.1%	1 100	1 428	43.5%	976	1 447	39.0%
2018	3 362	11 218	23.1%	2 082	15 162	12.1%	620	777	44.4%	1 391	1 494	48.2%	1 204	1 629	42.5%	884	1375	39.1%
2017	3 210	10 668	23.1%	1 983	14 665	11.9%	099	809	44.9%	1 332	1 248	51.6%	1 083	1 493	42.0%	792	1 239	39.0%
2016	3 009	9 887	23.3%	1 747	14 105	11.0%	625	806	43.7%	1 320	1 174	52.9%	1 128	1 570	41.8%	780	1 186	39.7%
2015	3 075	9 605	24.3%	1 985	14 708	11.9%	578	821	41.3%	1 352	1 265	51.6%	1117	1 430	43.9%	816	1 328	38.0%
2014	2 998	9 220	24.5%	2 122	13 544	13.5%	492	782	38.6%	1 190	1 183	50.1%	1 124	1 465	43.4%	777	1 143	40.5%
2013	2 837	8 090	26.0%	1 967	13 349	12.8%	471	794	37.2%	1 303	1 189	52.3%	1 060	1 390	43.3%	763	1 059	41.9%
2012	2 689	7 400	26.7%	1850	12 958	12.5%	407	789	34.0%	1 292	1 177	52.3%	980	1 415	40.9%	992	1 267	43.9%
2011	2 425	6 458	27.3%	1 713	11 982	12.5%	553	754	42.3%	1 358	1 345	50.2%	971	1 379	41.3%	678	1 068	38.8%
2010	1 966	5 618	25.9%	1 656	11 553	12.5%	290	884	40.0%	1 446	1 388	51.0%	737	1 031	41.7%	1034	1 325	43.9%
5000	2 006	5 182	27.9%	1 821	11 528	13.6%	615	833	42.5%	1 370	1 383	49.8%	807	1 140	41.5%	870	1 204	41.9%
2008	2 162	5 716	27.4%	1 888	11 982	13.6%	989	895	41.5%	1 291	1 349	48.9%	855	1 160	42.4%	727	1 124	39.3%
2007	1 952	5 460	26.3%	1 767	10918	13.9%	624	961	39.4%	1 263	1 365	48.1%	296	1 104	41.9%	691	978	41.4%
2006	1 960	5 671	25.7%	1 336	9 547	12.3%	592	882	40.2%	1 210	1 289	48.4%	862	1 199	41.8%	693	1 027	40.3%
2002	1 785	5 132	25.8%	1 356	8 384	13.9%	583	879	39.9%	1 160	1 327	46.6%	803	1 125	41.7%	662	972	40.5%

RESEARCHERS BY SCIENTIFIC DISCIPLINE AND SECTOR

Table 12: Researchers in the natural sciences by sector (HC)

Women         Mein         Women (%)         Women (		Ent	Enterprise sector	r	Gove	rernment sector	or	Uni	University sector		Private	Private non-profit sector	sector
1706         8883         16.1%         2300         4325         34.7%         1712         4716         26.6%           1163         6537         15.1%         2 263         4 222         34.9%         1576         4 397         26.4%           1143         6 379         15.2%         2 113         4 017         34.5%         1676         4 012         29.5%           1034         6 647         13.5%         2 053         4 081         33.5%         1 676         4 012         29.5%           984         6 6238         13.6%         2 053         4 081         33.5%         1 385         3 477         2 8.5%           934         5 570         14.7%         1 927         3 705         34.2%         1 297         3 0.0%           922         4 950         15.7%         1 830         3 7.2         3 2.9%         1 33         3 13.9%           922         4 950         15.7%         1 823         3 2.9%         1 33         3 13.9%           862         3 833         18.4%         1 717         3 5.7         3 2.8%         1 324         3 2.9           862         3 833         1 8.4%         1 571         3 2.3         1 3.		Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
1163         6537         15.1%         2 263         4 222         34.9%         1576         4 397           1143         6379         15.2%         2 113         4 017         34.5%         1676         4 012           1034         6 647         13.5%         2 053         4 081         33.5%         1 676         4 012           984         6 238         13.6%         2 173         3 899         35.8%         1 385         3 477           978         5 670         14.7%         1 927         3 705         34.2%         1 297         3 028           934         5 253         1 5.1%         1 830         3 727         32.9%         1 433         3 139           922         4 950         15.7%         1 823         3 656         33.3%         1 433         3 32           862         3 833         18.4%         1 717         3 517         32.8%         1 352         3 249           879         3 133         2 1.9%         1 571         3 22.8%         1 323         3 89           879         3 133         2 1.9%         1 571         3 22.8%         1 323         3 249           870         2 202         1 9.3%	2021	1 706	8 883	16.1%	2 300	4 325	34.7%	1712	4 716	76.6%	25	33	43.1%
1143         6379         15.2%         2113         4017         34.5%         1676         4012           1034         6647         13.5%         2053         4081         33.5%         1563         3819           984         6238         13.6%         2173         3899         35.8%         1385         34.77           978         5670         14.7%         1927         3.705         34.2%         1297         3028           934         5.253         15.1%         1830         3.727         32.9%         1433         3139           922         4.950         15.7%         1823         3.656         33.3%         1373         332           862         3.833         18.4%         1717         3.517         32.8%         1373         3.249           879         3.133         21.9%         1.571         3.23         32.1%         1.232         3.087           616         2.576         19.3%         1.603         3.350         29.6%         781         1923           525         2.202         19.3%         1.409         3.60         3.60         59.2         1.702           461         1.916         1	2020	1 163	6 537	15.1%	2 263	4 222	34.9%	1 576	4 397	26.4%	18	39	31.4%
1034         6 647         13.5%         2 053         4 081         33.5%         1 563         3 819           984         6 238         13.6%         2 173         3 899         35.8%         1 385         3 477           978         5 670         14.7%         1 927         3 705         34.2%         1 297         3 028           934         5 253         15.1%         1 823         3 727         32.9%         1 433         3 139           922         4 950         15.7%         1 823         3 656         33.3%         1 33.3         3 32.9           862         3 833         18.4%         1 717         3 517         32.8%         1 33.3         3 32.9           879         3 133         2 1.9%         1 571         3 32.3         3 2.49         3 249           879         3 133         2 1.9%         1 571         3 32.3         3 2.1%         1 532         3 249           875         2 202         1 9.3%         1 409         3 350         2 9.6%         7 81         1 702           461         1 916         1 9.4%         1 804         3 687         3 2.9%         553         1 749           324         1 9	2019	1 143		15.2%	2 113	4 017	34.5%	1 676	4 012	29.5%	18	24	43.6%
984         6 238         13.6%         2 173         3 899         35.8%         1 385         3 477           978         5 670         14.7%         1 927         3 705         34.2%         1 297         3 028           934         5 253         15.1%         1 830         3 727         32.9%         1 433         3 139           922         4 950         15.7%         1 823         3 656         33.3%         1 373         3 139           862         3 833         18.4%         1 717         3 517         32.8%         1 352         3 249           879         3 133         2 1.9%         1 571         3 22.8         1 373         3 249           879         3 133         1 409         3 321         3 1.2%         1 301         3 006           879         2 202         1 9.3%         1 409         3 350         2 9.6%         7 81         1 702           861         1 916         1 9.4%         1 804         3 687         3 2.9%         5 52         1 702           870         2 022         1 5.0%         1 678         3 477         3 0.5%         664         1 793           870         1 981         1 540	2018	1 034	6 647	13.5%	2 053	4 081	33.5%	1 563	3 819	29.0%	15	25	37.5%
978         5 670         14.7%         1927         3 705         34.2%         1 297         3 028           934         5 253         15.1%         1 830         3 727         32.9%         1 433         3 139           922         4 950         15.7%         1 823         3 656         33.3%         1 373         3 139           862         3 833         18.4%         1 717         3 517         32.8%         1 352         3 249           879         3 133         2 1.9%         1 571         3 323         3 2.1%         1 232         3 087           616         2 576         19.3%         1 409         3 350         29.6%         7 81         1 923           525         2 202         19.3%         1 480         3 143         3 2.0%         592         1 702           461         1 916         1 9.4%         1 804         3 687         3 2.9%         664         1 789           324         1 933         1 4.40         3 370         3 0.9%         664         1 793           350         1 981         1 540         3 370         3 0.9%         664         1 793	2017	984	6 238	13.6%	2 173		35.8%	1 385	3 477	28.5%	22	34	39.0%
934         5 253         15.1%         1830         3 727         32.9%         1433         3 139           922         4 950         15.7%         1823         3 656         33.3%         1 373         3 32           862         3 833         18.4%         1 717         3 517         32.8%         1 352         3 249           879         3 133         2 1.9%         1 571         3 323         32.1%         1 232         3 087           616         2 576         19.3%         1 409         3 321         31.2%         1 301         3 006           525         2 202         19.3%         1 480         3 443         32.0%         592         1 702           461         1 916         1 9.4%         1 804         3 687         32.9%         563         1 789           324         1 933         14.3%         1 526         3 477         30.5%         664         1 793           359         1 981         1 540         3 370         3 3.3%         675         1 341	2016	978	5 670	14.7%	1 927	3 705	34.2%	1 297	3 028	30.0%	11	30	26.5%
922         4 950         15.7%         1 823         3 656         33.3%         1 373         3 332           862         3 833         18.4%         1 717         3 517         32.8%         1 352         3 249           879         3 133         2 1.9%         1 571         3 323         32.1%         1 232         3 087           616         2 576         19.3%         1 409         3 351         31.2%         1 301         3 006           525         2 202         19.3%         1 409         3 350         29.6%         781         1 923           461         1 916         1 9.4%         1 804         3 687         32.9%         563         1 789           461         1 916         1 9.4%         1 678         3 585         3 1.9%         484         1 449           324         1 933         1 4.3%         1 526         3 477         3 0.5%         664         1 793           359         1 981         1 540         3 3 0.9%         664         1 793	2015	934		15.1%	1 830	3 727	32.9%	1 433	3 139	31.3%	25	35	41.7%
862         3 833         18.4%         1 717         3 517         32.8%         1 352         3 249           879         3 133         21.9%         1 571         3 323         32.1%         1 232         3 087           616         2 576         19.3%         1 503         3 321         31.2%         1 301         3 006           525         2 202         19.3%         1 409         3 350         29.6%         781         1 923           461         1 916         1 9.4%         1 804         3 687         32.9%         563         1 789           461         1 916         1 9.4%         1 678         3 585         31.9%         484         1 449           324         1 933         14.3%         1 526         3 477         30.5%         664         1 793           359         1 981         1 540         3 320         3 3.3%         675         1 341	2014	922	4 950	15.7%	1 823	3 656	33.3%	1 373	3 332	29.2%	25	33	42.8%
879         3133         21.9%         1571         3323         32.1%         1232         3 087           616         2 576         19.3%         1 503         3321         31.2%         1 301         3 006           525         2 202         19.3%         1 409         3 350         29.6%         781         1 923           461         1 916         1 9.4%         1 804         3 687         32.9%         563         1 789           356         2 022         15.0%         1 678         3 585         31.9%         484         1 449           354         1 933         14.3%         1 54         1 440         3 32.0         30.3%         664         1 793	2013	862	3 833	18.4%	1 717	3 517	32.8%	1 352	3 249	29.4%	12	29	29.4%
616         2 576         19.3%         1 503         3 321         31.2%         1 301         3 006           525         2 202         19.3%         1 409         3 350         29.6%         781         1 923           536         1 955         2 1.5%         1 480         3 143         32.0%         592         1 702           461         1 916         1 9.4%         1 804         3 687         32.9%         563         1 789           356         2 022         15.0%         1 678         3 585         31.9%         484         1 449           354         1 933         14.3%         1 54%         1 440         3 32.0         30.3%         664         1 793	2012	879	3 133	21.9%	1 571	3 323	32.1%	1 232	3 087	28.5%	12	39	24.1%
525         2 202         19.3%         1 409         3 350         29.6%         781         1 923           536         1 955         21.5%         1 480         3 143         32.0%         592         1 702           461         1 916         19.4%         1 804         3 687         32.9%         563         1 789           356         2 022         15.0%         1 678         3 585         31.9%         484         1 449           324         1 933         14.3%         1 56         3 477         30.5%         664         1 793           359         1 981         1 54%         1 440         3 30.5%         664         1 793	2011	616	2 576	19.3%	1 503	3 321	31.2%	1 301	3 000	30.2%	12	52	18.8%
536         1955         21.5%         1480         3143         32.0%         592         1702           461         1916         19.4%         1804         3687         32.9%         563         1789           356         2 022         15.0%         1678         3585         31.9%         484         1449           324         1 933         14.3%         1526         3477         30.5%         664         1793           359         1 981         15.4%         1440         330         30.3%         675         1341	2010	525	2 202	19.3%	1 409	3 350	29.6%	781	1 923	28.9%	15	48	23.8%
461         1916         19.4%         1804         3687         32.9%         563         1789           356         2 022         15.0%         1678         3585         31.9%         484         1449           324         1 933         14.3%         1 526         3 477         30.5%         664         1 793           359         1 981         1 54%         1 440         3 370         30.3%         675         1 341	2009	536	1 955	21.5%	1 480	3 143	32.0%	592	1 702	25.8%	15	38	28.4%
356     2 022     15.0%     1 678     3 585     31.9%     484     1 449       324     1 933     14.3%     1 526     3 477     30.5%     664     1 793       359     1 981     1 54%     1 440     3 370     30.3%     675     1 341	2008	461	1916	19.4%	1 804	3 687	32.9%	563	1 789	23.9%	7	14	33.3%
324 1933 14.3% 1526 3477 30.5% 664 1793	2007	356	2 022	15.0%	1 678	3 585	31.9%	484	1 449	25.0%	2	13	27.8%
359 1981 15.4% 1.440 3.320 30.3% 625 1.341	2006	324	1 933	14.3%	1 526	3 477	30.5%	664	1 793	27.0%	2	13	26.7%
	2005	359	1 981	15.4%	1 440	3 320	30.3%	625	1 341	31.8%	∞	14	36.4%

Source: CZSO – Research and Development Indicators.

Table 13: Researchers in the natural sciences by sector (FTE)

	Ent	<b>Enterprise sector</b>		Gove	Government sector	ī	nn	University sector	_	Private	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	1 385	7 356	15.8%	1 808	3 433	34.5%	1 095	3 066	26.3%	13	-	18 43.3%
2020	686	5 522	15.2%	1 766	3 312	34.8%	1 020	2 889	26.1%	17	1	18 49.0%
2019	978	5 390	15.4%	1 600	3 145	33.7%	1 031	2 439	29.7%	17	<u>, , , , , , , , , , , , , , , , , , , </u>	4 56.3%
2018	879	2 696	13.4%	1 548	3 166	32.8%	923	2 339	28.3%	12	1	6 42.2%
2017	817	5 373	13.2%	1 631	3 187	33.8%	743	2 082	26.3%	19	26	6 42.7%
2016	908	4 836	14.3%	1 454	2 954	33.0%	739	2 073	26.3%	6	24	4 27.2%
2015	736	4 515	14.0%	1 406	2 914	32.6%	913	2 142	29.9%	20	34	4 36.8%
2014	747	4 204	15.1%	1 405	2 868	32.9%	829	2 121	28.1%	17	2.	7 38.1%
2013	989	3 184	17.7%	1 282	2 704	32.2%	860	2 174	28.4%	6	28	8 24.9%
2012	715	2 563	21.8%	1 154	2 674	30.2%	908	2 131	27.4%	14	Ä.	2 31.0%
2011	492	1 997	19.8%	1 140	2 547	30.9%	787	1 883	29.5%	7	m	1 18.0%
2010	419	1 694	19.8%	1 079	2 651	28.9%	458	1 238	27.0%	10	3,	5 22.1%
5000	445	1 520	22.6%	1 178	2 542	31.7%	373	1 096	25.4%	11	24	4 30.8%
2008	383	1 597	19.4%	1 386	2 918	32.2%	389	1 191	24.6%	4	10	0 26.1%
2007	318	1 786	15.1%	1 331	2 799	32.2%	301	869	25.7%	m	,	6 29.6%
2006	295	1 734	14.5%	1 159	2 705	30.0%	503	1 223	29.1%	4	~	8 29.8%
2005	326	1 797	15.3%	1 093	2 572	29.8%	360	748	32.5%	9	11	5 29.8%

Source: CZSO – Research and Development Indicators.

Table 14: Researchers in the technical sciences by sector (HC)

Women (%)         Women (%)           10.0%         108         264         29.0%           10.2%         108         270         28.6%           9.6%         106         272         28.0%           9.3%         116         265         30.4%           9.1%         128         309         29.3%           8.3%         123         278         30.7%           9.4%         118         328         26.5%           10.5%         101         247         29.0%           10.5%         90         247         26.0%           9.1%         98         225         30.3%           8.3%         80         211         27.5%           9.0%         247         26.0%           9.1%         98         225         30.3%           8.3%         80         211         27.5%           9.0%         247         27.5%           9.2%         27.5%         27.5%	Women (%)         Women           10.0%         10           10.2%         10           9.6%         10           9.3%         11           9.1%         12           8.3%         12           9.4%         11	Nome	Women 1693 1696 1547 1529	. l	Women (%)	Women	n Men Wo	a B
1792     16177     10.0%     108     264     29.0%       1759     15 464     10.2%     108     270     28.6%       1623     15 271     9.6%     106     272     28.0%       1496     14 555     9.3%     116     265     30.4%       1382     13 852     9.1%     128     309     29.3%       1473     13 670     9.4%     118     328     26.5%       1539     12 732     10.8%     90     256     26.0%       1 402     11 996     10.5%     101     247     29.0%       1 1057     11 299     8.6%     90     247     26.7%       1 065     10 585     9.1%     83.8%     275     30.3%       880     9 747     83.9%     275     30.3%       880     9 747     83.8%     275     30.3%       880     9 747     83.8%     275     30.3%	177 10.0% 464 10.2% 271 9.6% 555 9.3% 014 8.3% 670 9.4%	264 270 272 265 309 278 328	1 693 1 696 1 547 1 529	093				7000
1759     15464     10.2%     108     270       1623     15271     9.6%     106     272       1496     14555     9.3%     116     265       1382     13852     9.1%     128     309       1473     13 670     9.4%     118     328       1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1065     10 585     9.1%     90     247       880     9 747     8.3%     80     211       880     9 747     8.3%     80     211	10.2% 9.6% 9.13% 8.3%		1 696 1 547 1 529		24.9%	25	29	46.3%
1623     15271     9.6%     106     272       1496     14555     9.3%     116     265       1382     13 852     9.1%     128     309       1177     13 014     8.3%     123     278       1413     13 670     9.4%     118     328       1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       800     277     277     277	9.6% 9.3% 8.3% 8.3%		1 547	5 014	25.3%	24	33	42.2%
1496     14555     9.3%     116     265       1382     13 852     9.1%     128     309       1177     13 014     8.3%     123     278       1413     13 670     9.4%     118     328       1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1 065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       800     277     277     277	9.3% 9.1% 8.3%		1 529	5 334	22.5%	13	18	41.7%
1382     13852     9.1%     128     309       1177     13 014     8.3%     123     278       1413     13 670     9.4%     118     328       1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1 057     11 299     8.6%     90     247       1 065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       90     277     277     273	9.1% 8.3% 1		7	5 357	22.2%	m	14	17.6%
1177     13014     8.3%     123     278       1413     13 670     9.4%     118     328       1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1057     11 299     8.6%     90     247       1065     10 585     9.1%     98     225       880     9 747     8.3%     80     211	8.3%		0.141	2 060	21.8%	11	31	26.2%
1413     13 670     9.4%     118     328       1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1057     11 299     8.6%     90     247       1065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       98     225     225	9.4%		1 384	5 098	21.4%	11	20	35.5%
1539     12 732     10.8%     90     256       1402     11 996     10.5%     101     247       1057     11 299     8.6%     90     247       1065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       900     247     225     225	300		1 459	5 084	22.3%	6	11	45.0%
1402     11996     10.5%     101     247       1057     11299     8.6%     90     247       1065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       900     247     247     247	%x:0		1 237	4 766	20.6%	15	26	36.9%
1 057     11 299     8.6%     90     247       1 065     10 585     9.1%     98     225       880     9 747     8.3%     80     211	10.5%		1 271	4 202	23.2%	2	31	13.6%
1 065     10 585     9.1%     98     225       880     9 747     8.3%     80     211       981     9 747     8.3%     90     211       982     9 747     8.3%     90     211	8.6%		1 199	4 538	20.9%	C	30	9.1%
880 9747 8.3% 80 211	9.1%		1 011	3 907	20.6%	4	29	12.3%
C3C FF /0CO 0F2O NOO	8.3%		1 296	4 507	22.3%	_	22	6.3%
304 3070 3.2.70	9 678 9.2%	252 23.4%	1 435	4 488	24.2%	$\mathbb{C}$	7	27.5%
<b>2008</b> 1 0 86 1 0 1 95 9.6% 1 0 2 83 26.5%	9.6%		1 435	4 591	23.8%	9	52	10.1%
<b>2007</b> 999 9319 9.7% 83 23.3 26.3%	9.7%		1 444	4 534	24.2%	4	36	10.9%
<b>2006</b> 824 8 207 9.1% 95 241 28.3%	9.1%		1 031	3 853	21.1%	$\mathbb{C}$	15	16.7%
<b>2005</b> 819 6 834 10.7% 96 239 28.7%	. 10.7%		1 080	4 224	20.4%	C	18	13.1%

Source: CZSO – Research and Development Indicators.

Table 15: Researchers in the technical sciences by sector (FTE)

	Ent	<b>Enterprise sector</b>	_	Gove	Government sector	or	nn	University sector		Private	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	1 479	14 092	9.5%	83	222	27.1%	857	2 800	23.4%	6	19	32.0%
2020	1 474	13 329	10.0%	88	227	27.9%	865	2 764	23.8%	10	15	39.1%
2019	1 317	12 917	9.3 %	96	228	29.7%	844	2 936	22.3%	7	11	37.9%
2018	1 242	12 188	9.3 %	87	225	27.8%	751	2 733	21.5%	M	15	14.5%
2017	1 154	11 740	80.6	77	238	24.5%	745	2 664	21.9%	9	23	22.0%
2016	984	11 176	8.1%	94	266	26.0%	999	2 655	20.0%	M	1	31.5%
2015	1212	11 774	9.3%	87	260	25.1%	683	2 662	20.4 %	4	12	24.0%
2014	1 335	10 610	11.2%	82	210	28.0%	969	2 697	20.5%	6	27	24.0 %
2013	1 228	10 513	10.5%	75	217	25.6%	661	2 596	20.3%	M	22	11.6%
2012	945	068 6	8.7 %	53	240	18.2 %	848	2 804	23.2 %	4	24	15.7 %
2011	951	9 290	9.3 %	99	199	24.8%	693	2 475	21.9%	M	17	14.5%
2010	793	8 553	8.5%	52	212	19.6%	810	2 769	22.6 %	2	19	%9.6
2009	668	8 587	9.5%	55	234	19.0%	865	2 697	24.3 %	2	11	18.6%
2008	955	9606	9.5%	91	243	27.2%	840	2 623	24.2 %	m	20	11.2%
2007	888	8 096	%6.6	72	200	26.4%	802	2 613	23.6%	<b>—</b>	O	14.4%
2006	202	7 127	80.6	78	207	27.3 %	552	2 209	20.0%	<b>—</b>	ΓU	13.6%
2005	727	980 9	10.7%	70	185	27.3 %	559	2 104	21.0%	1	8	12.2%

Source: CZSO – Research and Development Indicators.

Table 16: Researchers in the agricultural sciences by sector (HC)

	Fn	Enterprise sector	_	avor	Government sector	ŗ	idl	University sector		Privat	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	201	233	46.3%	388	354	52.3%	640	762	45.6%	2		6 25.0%
2020	198	221	47.2%	366	356	20.7%	929	865	43.1%	2		5 28.6%
2019	187	213	46.9%	363	353	20.7%	583	629	48.1%	2		2 50.0%
2018	160	221	42.0%	320	344	48.2%	532	738	41.9%	2		2 50.0%
2017	134	210	38.9%	356	356	20.0%	584	962	37.8%	2		1 66.7%
2016	127	223	36.3%	332	347	48.9%	207	869	36.8%	2		1 66.7%
2015	132	219	37.5%	332	363	47.8%	441	822	34.9%	2		1 66.7%
2014	128	198	39.2%	224	281	44.4%	583	946	38.1%	2		6 25.0%
2013	101	175	36.7%	189	249	43.2%	604	1 050	36.5%	•		1
2012	170	303	35.9%	142	232	38.0%	470	846	35.7%	_		4 20.0%
2011	204	251	44.9%	308	330	48.3%	400	992	34.3%	_		5 17.2%
2010	190	270	41.4%	289	310	48.2%	515	1 015	33.7%	_		5 16.7%
5000	224	285	44.0%	266	266	20.0%	586	1 091	34.9%	1		1
2008	226	294	43.5%	292	299	49.4%	638	1 145	35.8%	4	_	3 23.5%
2007	201	297	40.4%	304	347	46.7%	615	1 192	34.0%	4		8 33.3%
2006	239	300	44.4%	301	334	47.4%	499	984	33.6%	2	_	3 13.3%
2005	228	315	42.0%	280	348	44.6%	553	987	35.9%	1		-

Source: CZSO – Research and Development Indicators.

Table 17: Rese	Table 17: Researchers in the agricultural sciences by sector (FTE)	ricultural scie	ences by sector (	FTE)								
	En	<b>Enterprise sector</b>	or	Gove	Government sector	tor	n	University sector		Private	Private non-profit sector	ector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	141	155	47.6%	301	299	50.2 %	532	523	50.4%	2	5	27.9%
2020	140	143	49.4 %	261	338	43.5 %	399	516	43.6%	_	5	21.4%
2019	123	141	46.5 %	284	301	48.5%	299	360	45.3%	_	$\mathbb{C}$	16.0%
2018	109	141	43.7 %	262	292	47.3%	248	342	42.1%	0	2	15.7 %
2017	101	124	44.8%	299	304	49.6%	259	379	40.6%	_	_	31.2%
2016	92	134	40.8%	283	321	46.8%	250	349	41.7%	_	2	21.1%
2015	91	132	41.0%	284	335	45.8 %	202	353	36.4%	_	2	29.2%
2014	95	132	41.8%	160	239	40.1%	235	405	36.7%	2	9	20.7 %
2013	69	111	38.4%	162	228	41.5%	240	451	34.7%	0	4	1.4 %
2012	127	212	37.4 %	127	207	38.0%	152	367	29.3%	_	4	28.1%
2011	134	176	43.2 %	276	285	49.2%	141	289	32.9 %	2	4	25.8%
2010	133	193	40.8%	265	276	49.0%	190	411	31.6%	_	4	21.2 %
2009	167	222	42.9%	257	198	26.5%	191	405	32.1%	0	7	1.7%
2008	179	224	44.5%	226	240	48.6%	229	425	34.9 %	_	9	19.3%
2007	145	223	39.4%	239	277	46.2 %	239	454	34.5%	_	7	16.2%
2006	177	218	44.7%	231	278	45.4 %	185	377	32.8%	0	∞	1.2 %
2005	153	220	41.0%	218	290	43.0%	211	367	36.5%	0	2	11.4%

Source: CZSO – Research and Development Indicators.

Table 18: Researchers in the medical sciences by sector (HC)

Women         Men         Women (%)           420         330         56.0%           370         319         53.7%           316         270         53.9%           340         281         54.8%           316         275         53.5%           318         242         56.4%           249         237         51.2%           246         240         50.7%           235         272         46.3%           272         234         53.8%           330         239         58.0%	Women 760 745 782 775 715	Men Women (%) 502 60.2% 505 59.6%	Momon		_			
420 330 370 319 316 270 315 306 340 281 316 275 313 242 249 237 246 240 235 272 272 234 330 239			WOILEIL	Men Women (%)	_	Women N	Men W	Momen (%)
370 319 316 270 315 306 340 281 316 275 313 242 249 237 246 240 235 272 272 239			2 952	3 654	44.7%	∞	7	53.3%
316 270 315 306 340 281 316 275 313 242 249 237 246 240 235 272 272 239			2 858	3 450	45.3%	∞	7	53.3%
315 306 340 281 316 275 313 242 249 237 246 240 235 272 272 234 330 239		582 57.3%	2 617	3 258	44.5%	9	9	80.09
340 281 316 275 313 242 249 237 246 240 235 272 272 234 330 239		543 58.8%	2 344	2 874	44.9%	2	2	80.09
316 275 313 242 249 237 246 240 235 272 272 234 330 239		534 57.2%	2 413	2 919	45.3%	m	2	%0.09
313 242 249 237 246 240 235 272 272 234 330 239	53.5% 697	464 60.0%	2 103	2 671	44.1%	1	1	1
249 237 246 240 235 272 272 234 330 239	56.4% 769	594 56.4%	2 183	2 504	46.6%	1	1	1
246 240 235 272 272 234 330 239	51.2% 674	634 51.5%	2 2 2 5 6	2 487	47.6%	0	_	38.3%
235 272 272 234 330 239		554 59.1%	2 200	2 541	46.4%	_	0	100.0%
272 234 330 239		518 59.7%	1 861	2 001	48.2%	2	M	40.0%
330 239	53.8% 740	605 55.0%	2 152	2 514	46.1%	15	M	83.3%
	58.0% 729	296 55.0%	2 141	2 561	45.5%	_	M	25.0%
<b>  2009</b>	41.5% 819	671 55.0%	2 392	2 772	46.3%	1	1	1
<b>2008</b> 157 197 44.3%	44.3% 783	633 55.3%	2 118	2 458	46.3%	1	1	1
<b>2007</b> 155 187 45.3%	45.3% 709	673 51.3%	2 003	2 401	45.5%	_	_	42.7%
<b>2006</b> 150 238 38.7%	38.7% 729	652 52.8%	1871	2 139	46.7%	2	2	80.09
<b>2005</b> 144 180 44.4%	44.4%	601 54.1%	1 666	2 160	43.5%	2	0	100.0%

Source: CZSO – Research and Development Indicators.

Table 19: Researchers in the medical sciences by sector (FTE)

	Ent	Enterprise sector		Gove	Government sector	or	Uni	University sector		Privat	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	359	280	56.1%	362	210	63.2 %	1 012	1 193	45.9%	4		2 67.9 %
2020	310	262	54.2 %	355	211	62.7 %	961	1 133	45.9%	4		2 66.8%
2019	272	243	52.8 %	407	281	59.1%	851	1 062	44.5%	M		2 57.5%
2018	243	276	46.9%	400	261	%9.09	745	926	43.8%	2		2 58.1%
2017	272	246	52.5%	379	233	62.0%	229	767	46.9 %	M		2 66.5%
2016	255	230	52.6%	411	249	62.3%	654	969	48.5 %	1		1
2015	254	204	55.4%	439	271	61.8%	629	790	45.5%	1		1
2014	186	213	46.6%	340	247	27.8%	658	723	47.7%	9		0 98.1%
2013	203	199	50.4%	463	276	62.7 %	622	714	46.6%	15		0 99.1 %
2012	215	245	46.7 %	449	266	62.8%	601	999	47.4%	28		1 97.6%
2011	228	201	53.1 %	430	311	58.1%	672	832	44.7%	27		2 94.7 %
2010	256	201	56.1%	397	297	57.2%	768	888	46.4 %	23		2 93.0%
2009	125	172	42.1%	434	309	58.4%	810	901	47.4 %	<b>—</b>		1 37.9%
2008	142	181	44.0%	420	328	56.1%	728	839	46.4%	2		1 55.3%
2007	136	159	46.1%	392	327	54.5 %	733	877	45.5 %	2		2 49.1%
2006	136	190	41.8%	382	362	51.4%	069	736	48.4%	<b>—</b>		1 46.8%
2005	132	144	47.9%	351	335	51.2 %	929	849	44.3%	1	)	0 92.7%

Zdroj dat: ČSÚ, Ukazatele výzkumu a vývoje za Českou republiku v letech 2005–2021

Table 20: Researchers in the social sciences (HC)

	En	<b>Enterprise sector</b>	_	Gove	Government sector	or	'n	University sector	3-	Privat	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	150	351	76.62	207	240	46.3%	2 015	2 444	45.2%	62	99	5 48.4%
2020	147	338	30.4%	211	257	45.1%	2 094	2 560	45.0%	22	69	9 44.5%
2019	138	324	29.9%	328	309	51.5%	2 039	2 738	42.7%	70	70	50.1%
2018	147	390	27.3%	421	363	53.7%	2 030	2 710	42.8%	51	71	41.9%
2017	147	406	26.5%	366	338	52.0%	1 940	2 669	42.1%	20	71	1 41.3%
2016	260	636	29.0%	307	280	52.3%	1 887	2 462	43.4%	53	57	7 48.3%
2015	95	266	26.3%	253	287	46.9%	1 988	2 612	43.2%	22	09	77.6%
2014	138	379	76.6%	268	270	49.8%	1914	2 481	43.5%	26	99	5 45.9%
2013	51	219	18.7%	256	240	51.6%	2 002	2 596	43.5%	22	62	2 47.2%
2012	9	197	24.9%	257	275	48.3%	1 492	2 075	41.8%	48	49	49.3%
2011	39	134	22.4%	256	252	50.4%	1 656	2 270	42.2%	40	64	38.4%
2010	39	70	35.9%	218	241	47.5%	1 038	1 592	39.5%	47	55	5 46.1%
2009	87	159	35.4%	216	253	46.1%	1 083	1 589	40.5%	51	29	7 43.0%
2008	74	102	42.2%	257	276	48.2%	1 366	1 855	42.4%	14	14	%0 <sup>°</sup> 000
2007	99	110	37.4%	298	312	48.9%	1 405	2 043	40.7%	14	24	%9 <sup>'</sup> 98' 1
2006	54	83	39.4%	377	375	50.1%	1 431	2 021	41.5%	17	37	, 31.5%
2005	54	113	32.5%	337	311	52.0%	1 330	2 121	38.5%	20	20	20.0%

Source: CZSO – Research and Development Indicators.

Table 21: Rese	Table 21: Researchers in the social sciences by sector (FTE)	cial sciences i	by sector (FTE)									
	En	<b>Enterprise sector</b>	or	Gove	Government sector	or	Uni	University sector		Private	Private non-profit sector	ector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	109	254	30.0%	168	201	45.5%	751	806	45.4%	44	59	43.1 %
2020	107	247	30.2 %	172	195	47.0%	692	894	43.6%	45	57	44.2 %
2019	101	225	30.9%	263	229	53.5%	289	926	42.6%	49	48	20.6%
2018	107	264	28.9 %	274	256	51.8%	776	1 050	42.5 %	46	59	43.8%
2017	100	277	26.5 %	249	229	52.0%	889	927	42.6%	47	09	44.1%
2016	188	479	28.2%	213	200	51.7%	682	844	44.7 %	45	48	48.4%
2015	69	173	28.5%	229	214	51.7%	772	992	43.8%	47	51	48.1%
2014	104	265	28.2%	213	219	49.3 %	757	921	45.1%	20	09	45.1%
2013	32	141	18.3%	205	205	20.0%	775	992	43.8%	49	51	48.8 %
2012	38	108	26.2%	215	225	48.9%	089	1 037	39.6%	46	45	20.6%
2011	25	81	23.6%	231	283	45.0%	682	961	41.5%	32	54	37.3 %
2010	29	45	39.0%	249	267	48.3%	415	899	38.3 %	44	50	46.6%
2009	49	91	35.1%	208	221	48.5%	504	774	39.4 %	46	54	45.9%
2008	41	51	44.5%	257	241	51.5%	543	855	38.8%	14	12	54.5%
2007	37	58	39.0%	295	267	52.6%	447	759	37.1%	17	20	44.9%
2006	24	55	30.2%	311	325	48.9 %	516	798	39.3%	11	21	34.9%
2005	25	82	23.5%	271	250	51.9%	495	779	38.8%	13	14	48.9 %

Source: CZSO – Research and Development Indicators.

Table 22: Researchers in the humanities (HC)

	ū	<b>Enterprise sector</b>	or	Gove	Government sector	or	n	University sector	_	Privat	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	3	2	%0.09	780	686	45.4%	894	1 276	41.2%	2		5 28.6%
2020	2	(1)	3 40.0%	791	986	44.5%	879	1 280	40.7%	m		35.0%
2019	1	•	1	662	932	41.5%	926	1 357	41.8%	4		7 36.4%
2018	ĸ	2	%0.09	635	891	41.6%	912	1 279	41.6%	M		30.0%
2017	m		75.0%	570	825	40.9%	988	1 305	40.4%	2	,	1 27.6%
2016	ĸ	2	%0.09	280	825	41.3%	988	1 250	41.5%	4		66.7%
2015	'	•	•	545	759	41.8%	923	1 375	40.2%	<u></u>	0	0.001
2014	,	•	·	546	788	40.9%	752	1 152	39.5%	<b>—</b>	0	0.001
2013	1	•	•	268	730	43.8%	737	1 153	39.0%	2		57.0%
2012	'	•		292	713	44.2%	972	1 361	41.7%	1	,	1 73.3%
2011	m	9	31.1%	570	726	44.0%	664	1 085	38.0%	7	18	18 27.6%
2010	2	O	18.2%	576	688	45.6%	1 077	1 531	41.3%	16	25	5 39.2%
2009	_	10	9.1%	593	742	44.4%	851	1 264	40.2%	5	1	29.4%
2008	_	17	2.6%	624	776	44.6%	591	1 001	37.1%	4	16	6 20.0%
2007	_	11	8.3%	209	712	46.0%	298	991	37.6%	0	7	1 2.4%
2006	2	19	10.4%	593	749	44.2%	554	901	38.1%	_	,	3 22.9%
2005	18	24	42.7%	591	758	43.8%	459	797	36.5%	9	1(	0 35.8%

Source: CZSO – Research and Development Indicators.

Table 23: Researchers in the humanities (FTE)

	En	Enterprise sector		Gove	Government sector	ō	n	University sector	_	Private	Private non-profit sector	sector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	2		1 71.3%	553	982	44.7 %	452	779	36.7%	<b>—</b>	8	32.5 %
2020	_		1 48.7 %	520	724	41.8%	466	732	38.9%	_	4	27.6%
2019	1	1	1	462	673	40.7%	461	768	37.5%	M	L)	37.0%
2018	2	1	57.1%	439	699	39.6%	439	869	38.6%	4	7	35.7 %
2017	2		73.9%	440	642	40.7%	349	594	37.0%	_	2	30.9%
2016	2	2	49.2%	420	634	39.8%	357	549	39.4 %	2	_	% 2'99
2015	1	1	1	368	586	38.6%	447	742	37.6%	_	0	94.6%
2014	_	1	80.5%	389	909	39.1 %	387	536	41.9%	_	0	93.0 %
2013	_	0	76.4%	386	523	42.5 %	375	534	41.3%	_	2	45.5 %
2012	1	'		352	492	41.7 %	989	772	45.2%	4	m	58.2 %
2011	2	4	1 30.1%	342	502	40.5%	328	547	37.5%	9	15	29.2 %
2010	2	7	7 22.2 %	361	470	43.4%	999	834	44.4 %	9	13	32.2 %
2009	_	10	9.5%	373	490	43.3%	491	269	41.3 %	5	7	40.5%
2008	_	15	9.8%	391	547	41.7%	331	549	37.6%	4	13	22.4%
2007	0	00	3 1.8%	433	524	45.3 %	258	444	36.7 %	0	2	2.5%
2006	_	11	7.4%	424	531	44.4%	267	484	35.5%	0	_	29.7 %
2005	7	16	32.5%	387	544	41.5 %	214	400	34.8%	54	13	81.1%

Source: CZSO – Research and Development Indicators.

RESEARCHERS BY SECTOR

Table 24: Researchers by sector (HC)

	Ent	<b>Enterprise sector</b>		Gove	Government sector	,	nn	University sector		Privat	Private non-profit sector	ector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	4 272	25 976	14.1%	4 543	6 624	40.7 %	906 6	17 945	35.6%	124	146	45.9%
2020	3 639	22 882	13.7 %	4 484	9629	40.5%	9 759	17 566	35.7%	109	157	41.0%
2019	3 407	22 457	13.2 %	4 354	6 465	40.2%	9 438	17 328	35.3%	114	127	47.2 %
2018	3 155	22 120	12.5%	4 320	6 487	40.0%	8 910	16 777	34.7 %	9/	121	38.7 %
2017	2 990	20 988	12.5%	4 308	6 261	40.8%	8 618	16 392	34.5%	88	143	38.4%
2016	2 861	19 820	12.6%	3 966	5 899	40.2%	8 064	15 378	34.4%	81	110	42.4%
2015	2 887	19 651	12.8%	3 847	6 058	38.8%	8 427	15 536	35.2 %	92	107	46.1%
2014	2 975	18 497	13.9%	3 625	5 885	38.1%	8 115	15 164	34.9%	100	132	43.0%
2013	2 662	16 462	13.9%	3 633	5 537	39.6%	8 166	14 791	35.6%	75	127	37.2 %
2012	2 405	15 204	13.7 %	3 393	5 308	39.0%	7 226	13 908	34.2%	77	129	37.4%
2011	2 198	13 786	13.8 %	3 475	5 459	38.9%	7 184	13 548	34.7 %	79	172	31.5%
2010	1 967	12 536	13.6%	3 301	5 396	38.0%	6 848	13 129	34.3 %	82	159	34.0%
2009	1 973	12 285	13.8%	3 451	5 326	39.3%	6 6 6 3 6 9 6 9 6 9	12 906	35.0%	73	138	34.7%
2008	2 005	12 721	13.6%	3 862	5 954	39.3%	6 711	12 839	34.3%	35	113	23.7%
2007	1777	11 945	13.0%	3 679	5 862	38.6%	6 549	12 610	34.2 %	29	87	24.8%
2006	1 594	10 781	12.9%	3 621	5 828	38.3 %	0209	11 691	34.1%	29	82	26.3 %
2005	1 622	9 447	14.7%	3 454	5 576	38.2 %	5 713	11 630	32.9%	38	62	38.3 %

Source: CZSO – Research and Development Indicators.

Table 25: Researchers in enterprise sector (HC)

	Ent	<b>Enterprise sector</b>	-	Pub	Public enterprises	s	Private d	Private domestic enterprises	rprises	Internationally controlled private enterprises	controlled priv	ate enterprises
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	4 272	25 976	14.1%	130	818	13.7 %	1 938	9 637	16.7%	2 204	15 521	12.4 %
2020	3 639	22 882	13.7 %	128	834	13.3 %	1 869	9 407	16.6%	1 642	12 641	11.5%
2019	3 407	22 457	13.2 %	134	859	13.5%	1 726	9 299	15.7%	1 548	12 299	11.2 %
2018	3 155	22 120	12.5 %	133	760	14.9%	1 578	8 859	15.1%	1 444	12 501	10.4%
2017	2 990	20 988	12.5 %	133	775	14.6%	1 447	8 266	14.9%	1410	11 947	10.6%
2016	2 861	19 820	12.6%	110	694	13.7%	1 338	7 766	14.7 %	1 413	11 360	11.1%
2015	2 887	19 651	12.8%	120	782	13.4 %	1 365	7 869	14.8%	1 401	11 000	11.3%
2014	2 975	18 497	13.9%	107	808	11.7 %	1416	8 305	14.6%	1 452	9 385	13.4 %
2013	2 662	16 462	13.9%	92	756	10.9%	1 359	7 7 0 7	15.0%	1 212	7 998	13.2 %
2012	2 405	15 204	13.7 %	129	761	14.5%	1 215	7 100	14.6%	1 061	7 343	12.6%
2011	2 198	13 786	13.8%	127	819	13.4%	1 170	6 4 7 9	15.3%	905	6 488	12.2 %
2010	1 967	12 536	13.6%	132	869	13.2%	1 097	6 055	15.3 %	738	5 613	11.6%
2009	1 973	12 285	13.8%	134	868	13.0%	1 005	5 464	15.5%	835	5 923	12.3%
2008	2 005	12 721	13.6%	158	942	14.4%	945	5 325	15.1%	905	6 454	12.3%
2007	1777	11 945	13.0%	131	1065	10.9 %	963	5 684	14.5%	684	5 196	11.6%
2006	1 594	10 781	12.9%	159	1180	11.9%	920	5 404	14.6%	515	4 196	10.9 %
2005	1 622	9 447	14.7%	232	1181	16.4%	898	4 874	15.1%	522	3 392	13.3 %

Source: CZSO – Research and Development Indicators.

Table 26: Researchers in the government sector (HC)

	Gove	Government sector	ector	Czech Ac	ademy o	Czech Academy of Sciences	Othe	Other public research institutions	earch	Librarie I	Libraries, Archives and Museums	ves and	Me	Medical facilities	ties		Other	
	Women	Men	Men Women (%)	Women	Men V	Women (%)	Women	Men W	Women (%)	Women	Men \	Men Women (%)	Women	Men M	Men Women (%)	Women	Men W	Men Women (%)
2021	4 543	6 624	40.7%	2 561	4 486	36.3%	542	692	43.9 %	473	475	49.9%	899	446	%0.09	297	1 079	38.0 %
2020	4 484	965 9	40.5%	2 521	4 410	36.4%	537	269	43.5 %	487	511	48.8%	959	450	29.3 %	329	1 226	36.7 %
2019	4 354	6 465	40.2%	2 342	4 261	35.5 %	539	683	44.1%	442	483	47.8%	653	484	57.4 %	298	1 116	36.4%
2018	4 320	6 487	40.0%	2 263	4 319	34.4%	530	673	44.1%	424	463	47.8%	654	458	58.8 %	284	1 094	35.1%
2017	4 308	6 261	40.8 %	2 487	4 255	36.9%	510	633	44.6%	359	396	47.5 %	579	440	26.8 %	346	1 245	38.5%
2016	3 966	5 899	40.2 %	2 216	4 024	35.5%	494	614	44.6%	378	381	49.8%	547	374	59.4%	344	1 217	39.4%
2015	3 847	6 058	38.8%	2 0 9 2	4 070	34.0%	470	630	42.7 %	351	383	47.8%	637	496	56.2%	357	1 186	43.1%
2014	3 625	5 885	38.1%	2 054	3 875	34.6%	376	285	39.1%	315	355	47.0%	530	527	50.1%	340	1 149	45.0%
2013	3 633	5 537	39.6%	1 913	3 691	34.1%	470	639	42.4%	343	350	49.5%	591	377	61.0%	316	1 112	39.7 %
2012	3 393	5 308	39.0%	1 744	3 501	33.3 %	431	009	41.8%	314	380	45.2 %	564	358	61.2 %	350	1 243	39.2%
2011	3 475	5 459	38.9 %	1 692	3 559	32.2%	529	959	44.6%	360	397	47.5 %	537	375	28.9 %	297	1 073	38.3%
2010	3 301	2 396	38.0%	1 557	3 461	31.0%	486	621	43.9 %	386	400	49.1 %	528	385	27.8%	331	1 168	39.5 %
5000	3 451	5 326	39.3 %	1 601	3 269	32.9%	522	630	45.3 %	374	425	46.8 %	809	449	57.5%	373	1 283	41.0%
2008	3 862	5 954	39.3 %	2 043	3 910	34.3 %	529	658	44.6%	404	444	47.6%	602	416	59.1 %	449	1 472	43.9 %
2007	3 679	5 862	38.6%	1 931	3 815	33.6 %	209	652	43.8%	407	408	49.9%	534	467	53.3 %	378	1 310	40.6%
2006	3 621	5 828	38.3 %	1 828	3 776	32.6%	510	646	44.1%	396	402	49.6%	558	436	56.2 %	283	1 094	34.9%
2002	3 454	5 576	38.2 %	1 733	3 602	32.5%	493	645	43.3%	359	399	47.3 %	572	445	56.2 %	299	1 123	36.3%

Source: CZSO – Research and Development Indicators.

38.2 % 41.1% 40.9% 43.3% 39.5% 39.4% 37.0% 40.0% 42.2 % 36.2% 37.1% 31.7% Women (%) Private universities 216 2219 222 232 232 244 244 244 254 196 1196 72 72 Women 46.2% 44.8% 46.6% 42.6% 46.6% 49.2% 45.9% 45.5% 46.7% 44.4% 46.5 % 47.7% 44.6% 47.6% 44.4% Women (%) **University hospitals** 1442 1221 1177 1183 1099 1055 1181 1181 1123 884 1 020 1 059 1 178 895 983 826 791 Men 1 207 1 047 948 816 892 710 633 1 032 981 952 737 892 847 1 022 961 958 783 Women 34.7 % 34.4% 33.6% 33.2 % 33.5 % 33.8% 33.3 % 34.5 % 33.1% 33.3 % 33.0% 33.3 % 33.0% 32.6% 33.0% 31.9% Women (%) Public and state universities 10710 16 017 15 793 14 952 14 064 14 036 13 777 13 217 12 205 11 806 11 459 11 697 11 383 10 713 15 261 12 661 Men Table 27: Researchers in the university sector (HC) 8 493 8 269 7 7 1 7 7 424 7 071 096 9 6 253 6 102 5 825 5 721 5 755 5 513 5 2685 008 7 151 Women 2018 2017 2016 2015 2013 2013 2010 2010 2009 2008 2007 2006 2021 2020 2019

Source: CZSO – Research and Development Indicators.

Table 28: Researchers by sector (FTE)

	Ent	<b>Enterprise sector</b>	_	Gove	ernment sector	or	Un	University sector	_	Private	Private non-profit sector	ector
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	3 474	22 137	13.6%	3 276	5 050	39.3 %	4 700	9 264	33.7%	74	105	41.4%
2020	3 020	19 506	13.4 %	3 162	5 007	38.7 %	4 404	8 928	33.0%	78	101	43.7 %
2019	2 790	18 916	12.9%	3 111	4 857	39.0%	4 172	8 491	32.9%	80	83	49.1%
2018	2 583	18 566	12.2 %	3 010	4 869	38.2 %	3 882	8 119	32.3 %	29	101	39.8%
2017	2 445	17 761	12.1%	3 075	4 833	38.9%	3 462	7 413	31.8%	78	114	40.5%
2016	2 328	16857	12.1%	2 876	4 624	38.3%	3 347	7 165	31.8%	09	82	42.1%
2015	2 362	16 799	12.3%	2 813	4 580	38.0%	3 676	7 681	32.4 %	72	98	42.2%
2014	2 468	15 424	13.8%	2 588	4 391	37.1 %	3 562	7 403	32.5%	83	121	40.6 %
2013	2 2 1 8	14 149	13.6%	2 572	4 153	38.3 %	3 534	7 462	32.1%	77	107	42.0%
2012	2 040	13 018	13.5%	2 351	4 103	36.4%	3 722	7 776	32.4%	66	109	47.7%
2011	1 832	11 750	13.5%	2 485	4 126	37.6%	3 303	986 9	32.1%	77	123	38.4 %
2010	1 633	10 694	13.3 %	2 403	4 174	36.5%	3 306	608 9	32.7 %	98	122	41.4%
5000	1 686	10 603	13.7 %	2 505	3 993	38.5%	3 235	694 9	33.0%	64	104	38.3%
2008	1 702	11 164	13.2%	2 771	4 517	38.0%	3 059	6 482	32.1%	27	62	30.4%
2007	1 525	10 330	12.9%	2 761	4 393	38.6%	2 783	6 0 1 7	31.6%	24	46	34.3%
2006	1 338	9 335	12.5%	2 585	4 407	37.0%	2 713	5 828	31.8%	17	45	27.4 %
2005	1 370	8 346	14.1%	2 388	4 176	36.4 %	2 514	5 248	32.4%	92	51	29.6 %

Source: CZSO – Research and Development Indicators

### **ACADEMICS**

Table 29: Academics by academic position (FTE)

		-	1004114041			۷	Acric+25+1	Г	<	20,000	Acristant profession		<	-tio	Accordant profession			E.I.I	Eull professor	
	Women	Men	Men Women (%) Men (%) Women	len (%)	Women	Men	n (%) M	(%) u	en (%) Women	Men	Women (%) Men (%) Women	(%) ue	-	Men	Women (%) Men (%) Women	(%) ua	Women	Men	Women (%) Men (%)	len (%)
2021	536	431	55.4	44.6	683	761	47.3	52.7	4 060	5 747	41.4	58.6	1151	3 142	26.8	73.2	348	1 865	15.7	84.3
2020	515	398	56.4	43.6	664	695	48.9	51.1	4 007	5 782	40.9	59.1	1 143	3 125	26.8	73.2	334	1 844	15.3	84.7
2019	208	365	58.2	41.8	629	638	49.7	50.3	3 940	5 685	40.9	59.1	1 103	3 096	26.2	73.8	335	1815	15.6	84.4
2018	471	329	58.9	41.1	611	601	50.4	49.5	3 963	5 713	41	29	1 072	3 056	26	74	330	1814	15.4	84.6
2017	455	318	58.9	41.1	632	621	50.5	49.5	3 943	5 663	41	29	1 049	3 066	25.5	74.5	333	1 802	15.6	84.4
2016	450	321	58.3	41.7	655	989	48.8	51.2	3 943	5 667	41	29	1 036	3 054	25.3	74.7	332	1 825	15.4	84.6
2015	457	299	60.4	39.6	634	685	48.1	51.9	3 759	5 470	40.7	59.3	954	2 828	25.2	74.8	313	1 739	15.3	84.7
2014	367	251	59.4	40.6	216	619	48.2	51.8	3 396	4 577	42.6	57.4	849	2 376	26.3	73.7	274	1 501	15.4	84.6
2013	319	218	59.4	40.6	298	627	48.8	51.2	3 399	4 653	42.2	57.8	822	2 332	26.1	73.9	273	1 503	15.4	84.6
2012	329	219	09	40	633	029	48.6	51.4	3 443	4 837	41.6	58.4	824	2 386	25.7	74.3	268	1 528	14.9	85.1
2011	431	292	9.69	40.4	686	1 029	49	21	4 667	980	40.1	59.9	1 040	3 265	24.2	75.8	352	2 135	14.2	85.8
2010	499	326	60.5	39.5	1 101	1 098	50.1	49.9	4 669	7 048	39.8	60.2	1 034	3 289	23.9	76.1	342	2 184	13.5	86.5
2009	463	310	59.9	40.1	1 158	1 237	48.4	51.6	4 652	7 150	39.4	9.09	959	3 191	23.1	76.9	298	2 126	12.3	87.7
2008	463	310	59.9	40.1	1 158	1 237	48.4	51.6	4 652	7 150	39.4	9.09	959	3 191	23.1	6.97	298	2 126	12.3	87.7
2007	459	298	9.09	39.4	1 059	1 170	47.5	52.5	4 495	6 897	39.5	60.5	940	3 100	23.3	76.7	263	2 070	11.3	88.7
2006	352	295	54.4	45.6	896	1 112	46.5	53.5	4 270	6 551	39.5	60.5	917	3 083	22.9	77.1	258	1 980	11.5	88.5
2002	274	223	55.1	44.9	851	978	46.5	53.5	4 249	6 416	39.8	60.2	881	3 052	22.4	77.6	240	1 944	11	88

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 30: Academics by discipline (FTE)

Wor	Natural Sciences			ALCOHOLD !	-	V	, de circle   Cr		MA	000	-	Ü	1010		_	4.4.0	-
1		רופוורפי	lec.	leculical sciences	- case	Agricui	mual	- ces	Me	Medical Sciences	inces -	'n	social sciences	ces	_	numanines	21
		Men Women (%)	Women	Men	Men Women (%)	Women	Men Women (%)	men (%)	Women	Men \	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
50   1707	695 2 031	1 25.5	878	3 021	22.5	341	266	37.6	1 211	1 517	44.4	1 744	2 095	45.4	1 259	1 700	42.5
2020 76	762 2 173	3 26.0	865	3 000	22.4	373	639	36.8	1 188	1 509	44.0	1 751	2 097	45.5	1 158	1 604	41.9
<b>2019</b> 70	701 2 094	4 25.1	848	2 870	22.5	332	616	35.0	1 155	1 605	41.9	1 670	1 993	45.6	1 158	1 605	41.9
2018 44	445 1415	5 23.9	1 059	2 815	27.3	205	624	39.6	1 123	1 569	41.7	1 746	2 555	40.6	1 198	1 715	41.1
2017 48	484 1 466	6 24.8	1 102	3 679	23.1	286	520	35.5	1 120	1 459	43.4	1 060	2 598	44.2	1 191	1 687	41.6
2016 41	414 1326	6 23.8	1 096	3 694	22.9	276	909	35.3	1 088	1 424	43.3	2 046	2 579	44.2	1 144	1 647	41.0
<b>2015</b> 56	565 1775	5 24.1	1 254	4 491	21.8	315	531	37.2	2 265	3 178	41.6	2 030	2 482	45.00	1 339	2 011	40.0

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 31: Academics by position in the natural sciences (FTE)

		Lecturers			Assistants		Assist	<b>Assistant professor</b>	sors	Associ	Associate professors	sors	Ē	<b>Full professors</b>	s
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	70	95	42.2 %	29	59	29.5%	397	988	30.9 %	150	611	19.8%	49	371	11.6%
2020	69	87	44.3 %	27	54	33.8%	386	870	30.8%	144	601	19.4 %	45	366	11.0%
2019	70	93	43.1 %	23	41	35.7%	386	863	30.9%	138	646	17.7 %	45	396	10.2%
2018	70	90	43.8%	19	28	41.1%	364	828	30.6%	134	629	17.5%	44	395	10.0%
2017	69	88	43.9%	18	30	38.0%	365	835	30.4 %	125	616	16.9%	46	383	10.7 %

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 32: Academics by position in the technical sciences (FTE)

		Lecturers			Assistants		Assist	Assistant professors	sors	Assoc	Associate professors	ors	Ful	Full professors	s
	Women	Men	Women (%)	Women	Men	Men Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	67	53	3 35.7 %	81	208	28.2%	561	1 516	27.0%	154	802	16.1%	55	439	10.6%
2020	22	4(	34.9%	06	187	32.4%	544	1 505	26.6%	153	789	16.2 %	49	441	10.0%
2019	19	35	32.7 %	88	173	33.8%	543	1 464	27.1 %	152	788	16.2 %	47	436	9.7%
2018	9	115	9 25.2%	88	160	35.7%	577	1 533	27.4 %	148	784	15.9%	46	430	9.6%
2017	4	118	3 17.7%	92	161	36.3%	267	1 507	27.3 %	143	781	15.5%	44	430	9.3 %

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 33: Academics by position in the medical sciences (FTE)

		Lecturers		<b>7</b>	Assistants		Assist	Assistant professor	sors	Associa	Associate professors	ors	Ful	Full professors	ſs
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	101	72	58.3 %	190	140	57.7%	869	648	51.9%	152	313	32.7 %	69	344	16.7%
2020	88	63	58.1 %	166	133	55.5%	693	959	51.4%	151	315	32.4 %	62	323	16.2%
2019	82	59	58.3 %	161	111	59.2 %	029	658	80.5%	149	316	32.0%	62	320	16.3%
2018	92	59	26.3%	152	92	62.3%	655	649	50.2 %	146	314	31.7%	63	315	16.7%
2017	78	89	53.6%	138	92	60.1%	655	640	89.09	145	319	31.3%	64	313	16.9%

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 34: Academics by position in the agricultural sciences (FTE)

		Lecturers			Assistants		Assis	<b>Assistant professors</b>	ssors	Associ	Associate professors	sors	Ful	<b>Full professors</b>	rs
	Women	Men	Women (%) Women	Women	Men	Men Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	2		2 67.2 %	54	36	%9'69	206	797	44.0%	54	167	24.5 %	22	66	18.4%
2020	4	•	2 69.1%	58	38	60.2 %	193	260	42.6%	51	158	24.3 %	22	96	18.3%
2019	m	_	% 8.06 0	44	32	57.8%	178	247	41.9%	47	156	23.0 %	20	97	16.8%
2018	2	)	0 100.0%	43	30	59.1%	177	249	41.5%	43	152	22.1%	22	101	17.8%
2017	2	)	0 100.0%	42	30	58.8%	172	258	40.0%	43	159	21.4%	22	102	17.6%

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 35: Academics by position in the social sciences (FTE)

		Lecturers	_	_	Assistants		Assist	Assistant professors	sors	Associ	<b>Associate professors</b>	ors	Full	Full professors	
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men W	Women (%)	Women	Men	Women (%)
2021	108	79	57.8%	119	120	49.7%	1 120	1 182	48.7 %	329	492	40.0%	89	222	23.6%
2020	101	9/	57.0%	120	111	52.1%	1 107	1 174	48.5 %	332	488	40.5 %	29	218	23.5%
2019	101	89	29.7 %	114	103	52.5%	1 102	1 149	48.9 %	322	486	39.8 %	69	224	23.4%
2018	06	58	61.0%	96	102	48.5%	1 126	1 147	49.5 %	308	485	38.8%	65	218	23.0%
2017	77	20	86.09	110	119	47.9%	1 171	1 171	20.0%	296	494	37.4%	65	219	23.0%

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 36: Academics by position in the humanities (FTE)

		Lecturers		_	Assistants		Assistant	ant profes	sors	Associ	Associate professors	sors	Fu	Full professors	S
	Women	Men	Women (%) Women	Women	Men	Men Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	146	64	% 69.3 %	124	117	51.5%	602	828	46.1%	218	462	32.0%	62	228	21.4%
2020	158	71	69.1 %	128	105	54.8%	693	828	44.5%	214	453	32.1 %		223	21.9%
2019	162	89	70.5 %	123	106	23.6%	657	830	44.2 %	202	444	31.3 %	64	219	22.6%
2018	163	65	71.6%	124	108	53.4%	089	834	43.0%	195	429	31.2%		227	21.8%
2017	165	59	73.6%	129	105	55.2%	622	821	43.1 %	188	432	30.4%	9	229	22.2 %

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

Table 37: Average gross monthly wage (CZK)\* of academics

		Lecturers			Assistants		Assist	Assistant professors	ors	Assoc	Associate professors	ors	Ful	Full professors	
	Women	Men	GPG (%)	Women	Men	(%) 9d5	Women	Men	GPG (%)	Women	Men	GPG (%)	Women	Men	GPG (%)
2021	39 456	44 626	11.60	38 409	41 983	8.50	48 000	53 845	10.90	67 001	75 815	11.60	88 635	97 284	8.90
2020	37 695	42 443	11.2	36 932	40 611	9.1	45 892	52 163	12.2	64 484	73 508	12.8	84 815	92 824	8.6
2019	37 553	43 417	11.5	36 287	40 270	6.6	45 155	50 876	11.2	63 991	72 218	11.4	83 540	91 486	8.7
2018	34 783	38 640	10	33 265	36 530	8.9	41 586	47 233	12	59 694	67 541	11.6	78 091	84350	7.4
2017	31 643	35 405	10.6	29 446	32 588	9.6	37 552	42 482	11.6	53 300	60 746	12.3	72 983	77 629	9
2016	30 128	34 236	12	27 976	30 424	∞	35 212	39 858	11.7	50 794	26 966	10.8	68 791	72 750	5.4
2015	30 575	33 919	6.6	27 877	29 662	9	34 876	39 310	11.3	50 648	56 942	11.1	69 435	73 049	4.9
2014	28 354	33 068	14.3	26 198	27 688	5.4	32 959	36 403	9.5	48 674	54 146	10.1	826 99	70 016	4.3
2013	27 487	30 814	10.8	25 361	27 336	7.2	31 603	35 468	10.9	47 279	52 071	9.2	64 414	67 344	4.4
2012	26 139	29 033	10	24 642	25 929	2	31 215	34 078	8.4	45 569	49 414	7.8	61 778	65 062	2
2011	24 684	27 540	10.4	23 232	25 867	10.2	29 464	32 967	10.6	43 677	47 427	7.9	58 156	62 057	6.3
2010	24 319	27 409	11.3	23 415	24 603	4.8	29 877	31 793	9	43 451	46 230	9	58 661	60 329	2.8

Source: Ministry of Education, Youth and Sports – Statistical Yearbook (Employees and wage resources).

### **DECISION-MAKING POSITIONS**

Table 38: Proportion of women in public research institutions in 2021 (HC)

	Women	Men	Women (%)
Director	-	17	8.9
Deputy director			
Council	151	628	19.4
Supervisory board	06	322	21.8
Total	242	296	20.0

Source: www.radavs.cz

Table 39: Proportion of women in management and advisory boards of the Czech Academy of Sciences in 2021 (HC)  $\,$ 

	Women	Men	Women (%)
Chair	1	0	100%
Academic council	4	13	23.5%
Academic assembly	20	207	19.5%
Supervisory board	_	7	12.5%
Research board	4	25	13.8%
Management of CAS in total	09	252	19.2 %
Other advisory boards (commission. councils)	84	294	22.2 %
Total CAS	144	546	20.9%

Source: www.avcr.cz

Table 40: Proportion of women in the Czech Rectors' Conference in 2021 (HC)

	Women	Men	Women (%)
Chair	0	1	% 0.0
Board	_	5	16.7 %
Rectors' Conference of public and state universities	4	24	14.3 %
Rectors' Conference of private universities	9	13	31.6%
Total	11	43	20.4 %

Source: crc.muni.cz

Table 41: Proportion of women in the Council of Czech Universities in 2021 (HC)

	Women	Men	Women (%)
Chair	0	1	% 0.0
Board	15	34	30.6%
Student chamber	10	22	31.3 %
Assembly	104	203	33.9 %
Total	129	260	33.2 %

Table 42: Proportion of women in Technological Agency of the Czech Republic in 2021 (HC)

	Women	Men	Women (%)
Chair	0	1	%0.0
Board	_	4	20.0%
Research board	_	11	8.3%
Controlling body	M	7	30.0%
Management of TACR in total	5	24	17.2 %
Programme's council, expert commissions	58	158	26.9%
Total	89	205	24.9%

Source: 2021 Technological Agency Annual Report, www.tacr.cz.

Table 43: Proportion of women in the Czech Science Foundation in 2021 (HC)

	Women	Men	Women (%)
Chair	1	0	100.0%
Board	2	M	40.0%
Research board	_	11	8.3%
Controlling body	_	00	11.1%
Management of CSF in total	5	22	18.5%
Evaluation panels	82	328	20.0%
Commission	0	5	%0.0
Total	91	377	,

Source: 2021 Czech Science Foundation Annual Report.

	Women	Men	Women (%)
Chair	0	1	%0.0
Council	2	5	28.6%
Regular members	6	86	9.5%
Foreign members	C	46	6.1%
Emeritus members	_	17	2.6%
Total	15	155	8.8%

Table 44: Proportion of women in the Learned Society of the Czech Republic in 2021 (HC)

Source: www.learned.cz/cz/

Table 45: Science and engineering professionals\* and their average gross monthly wage (CZK)

Momen (%)         Momen (%) <t< th=""><th></th><th></th><th> -</th><th></th><th> </th><th></th><th></th><th></th><th></th><th></th><th> </th><th>1</th><th></th><th></th><th></th><th></th></t<>			-									1				
Women         Men         Women         Women (%)         PS 48			Iotal		Ag	e: 25–29 le	_	Ag	e: 30–34 le	et.	Ä	je: 35–44 le	Į.	Ag	le: 45-54 let	
41500         106 700         28.0         46 724         14.1         48 504         54 841         11.6         55 399         64 367         13.9         56 494         65 744           41 500         106 700         28.0         37 145         44 162         15.9         46 589         52 834         11.8         52 854         62 926         16.0         53 196         61 346           39 500         104 200         27.5         35 749         42 912         16.7         44 883         51 828         13.4         49 933         60 483         17.4         49 276         60 238           36 800         106 300         25.6         43 272         38 945         12.0         41 510         47 956         13.4         45 656         54 842         16.7         45 489         55 019           30 900         100 000         23.8         31 693         36 432         45 207         15.00         42 613         52 566         18.9         42 209         51 134           26 900         91 600         22.4         29 768         32 290         7.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           23 300<		Women	Men	Women (%)		Men	Women (%)		Men	Women (%)	Women	Men	Women (%)			omen (%)
41 500         106 700         28.0         37 145         44 162         15.9         46 589         52 834         11.8         52 854         62 926         16.0         53 196         61 346           39 500         104 200         27.5         35 749         42 912         16.7         44 883         51 828         13.4         49 933         60 483         17.4         49 276         60 238           36 800         106 300         25.6         43 272         38 945         12.0         41 510         47 956         13.4         45 656         54 842         16.7         45 489         55 019           34 400         105 300         24.4         31 693         36 432         13.0         45 207         15.00         42 613         52 566         18.9         42 209         51 134           30 900         100 000         23.8         32 290         7.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           25 400         85 500         21.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           25 300         79 700         24.5 </th <th>2021</th> <th></th> <th></th> <th></th> <th>40 157</th> <th>46 724</th> <th>14.1</th> <th>48 504</th> <th>54 841</th> <th>11.6</th> <th>55 399</th> <th>64 367</th> <th>13.9</th> <th></th> <th>65 744</th> <th>14.1</th>	2021				40 157	46 724	14.1	48 504	54 841	11.6	55 399	64 367	13.9		65 744	14.1
39 500         104 200         27.5         35 749         42 912         16.7         44 883         51 828         13.4         49 933         60 483         17.4         49 276         60 238           36 800         106 300         25.6         43 272         38 945         12.0         41 510         47 956         13.4         45 656         54 842         16.7         45 489         55 019           34 400         105 300         23.8         31 693         36 432         13.0         45 207         15.00         42 613         52 566         18.9         42 209         51 134           26 900         91 600         22.4         29 768         32 290         7.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           25 400         85 500         21.8         29 768         32 290         7.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           25 400         85 500         21.8         47 700         24.5         47 618         19.2         46 113           21 600         74 700         24.5         47 618         47 618	2020	41 500	106 70		37 145	44 162	15.9	46 589	52 834	11.8	52 854	62 926	16.0		61 346	13.3
36 800         106 300         25.6         43 272         38 945         12.0         41 510         47 956         13.4         45 656         54 842         16.7         45 489         55 019           34 400         105 300         24.4         31 693         36 432         13.0         38 432         45 207         15.00         42 613         52 566         18.9         42 209         51 134           30 900         100 000         23.8         29 768         32 290         7.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           25 400         85 500         21.8         24.5 <th>2019</th> <th>39 500</th> <th>104 20</th> <th></th> <th>35 749</th> <th>42 912</th> <th>16.7</th> <th>44 883</th> <th>51 828</th> <th>13.4</th> <th>49 933</th> <th>60 483</th> <th>17.4</th> <th>49 276</th> <th>60 238</th> <th>18.2</th>	2019	39 500	104 20		35 749	42 912	16.7	44 883	51 828	13.4	49 933	60 483	17.4	49 276	60 238	18.2
34 400         105 300         24.4         31 693         36 432         13.0         38 432         45 207         15.00         42 613         52 566         18.9         42 209         51 134           30 900         100 000         23.8         29.768         32 290         7.8         36 885         41 764         11.7         38 453         47 618         19.2         36 689         46 113           25 400         85 500         21.8         24.5         47 618         19.2         36 689         46 113           23 300         79 700         24.5         24.0         24.5         24.0         24.5         24.0         24.0         24.0         24.5         24.0	2018	36 800	106 30		43 272	38 945	12.0	41 510	47 956	13.4	45 656	54 842	16.7	45 489	55 019	17.3
30 900       100 000       23.8         26 900       91 600       22.4       29 768       32 290       7.8       36 885       41 764       11.7       38 453       47 618       19.2       36 689       46 113         25 400       85 500       21.8       36 689       46 113         23 300       79 700       24.5       47 618       19.2       36 689       46 113         21 600       74 700       21.4       47 618       47 618       47 618       47 618	2017	34 400	105 30		31 693	36 432	13.0	38 432	45 207	15.00	42 613	52 566	18.9	42 209	51 134	17.5
26 900       91 600       22.4       29 768       32 290       7.8       36 885       41 764       11.7       38 453       47 618       19.2       36 689       46 113         25 400       85 500       21.8       23 300       79 700       24.5       24.5       46 113       46 113         21 600       74 700       21.4       21.6       46 113       46 113       46 113	2016	30 900	100 00													
25 400 85 500 23 300 79 700 21 600 74 700	2015	26 900	91 60		29 768	32 290	7.8	36 885	41 764		38 453	47 618	19.2	36 689	46 113	20.4
23 300 79 700 21 600 74 700	2014	25 400	85 50													
21 600 74 700	2013	23 300	79 70													
	2012	21 600	74 70													

Source: CZSO – Labour Force Survey (LFS).

Table 46: Obtaining patents from a gender perspective

		Total		Pub	Public universities	ies	Public re	Public research institutions	itutions		Enterprises		Pri	Private citizens	sus
	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)	Women	Men	Women (%)
2021	39	409	9 8.7%	15	112	12.1%	5	19	20.0%	13	200	9:00	5	49	9.3%
2020	53	486	9.9%	19	130	12.9%	7	40	14.6%	20	234	7.8 %	5	47	%8.8%
2019	09	459	11.5%	17	114	13.3%	20	43	31.1%	17	216	7.1%	4	99	7.0%
2018	55	463	3 10.5%	15	123	10.7%	11	29	28.5 %	22	217	9.1%	5	09	7.8%
2017	55	549	9.1%	20	150	11.5%	10	42	18.5 %	19	254	7.1%	5	7	% 9.9
2016	09	909	9.0%	27	187	12.7 %	00	48	14.5 %	18	277	6.2%	9	29	% 0.8
2015	54	546	5 9.1%	25	179	12.2 %	10	59	14.6%	16	228	% 2.9	2	61	3.8%
2014	20	436	5 10.2%	20	140	12.7 %	7	48	12.5 %	16	185	7.9%	9	20	10.8%
2013	44	377	7 10.5%	20	138	12.5%	10	31	23.2 %	12	144	7.8%	2	5.	3.6%
2012	4	378	3 10.4%	16	123	11.3%	00	38	18.2 %	18	147	11.0%	_	.5	7 1.7%
2011	38	306	5 11.1%	13	90	12.4 %	7	28	20.4%	15	104	12.7%	2	63	3.5%
2010	22	278	3 7.4%	m	62	4.3 %	6	29	23.5%	5	112	4.6%	4	53	3 6.3 %
2009	32	348	8.5%	6	48	16.0%	00	33	20.1%	11	190	5.5%	2	99	3.1%
2008	19	232	7.5%	2	17	11.2%	9	20	21.8%	6	139	%0.9	2	43	3 4.4%
2007	15	226	5 6.1%	m	20	11.8%	_	10	11.2%	∞	120	6.2 %	2	65	3.0%
2006	19	247	7.0 %	2	14	11.0%	2	∞	37.9%	6	141	5.9 %	m	78	3.9%
2005	18	327	7 5.3 %	_	17	%6.9	2	15	13.3 %	6	180	4.6 %	4	104	4.1%

Source: CZSO – Labour Force Survey (LFS).

### The Position of Women in Czech Science 2021 Monitoring Report

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