# Statistics for use in the evaluation of mathematics, informatics and technology 

Analysis of research personnel in 2013, 2017 and 2021

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## Preface

This report presents statistics and indicators for research and development (R\&D) personnel at department or institute level for the units in the Norwegian higher education and institute sectors which are included in the ongoing evaluation of mathematics, informatics and technology (evalmit) in Norway conducted by the Research Council of Norway (RCN). Conducting evaluations of Norwegian research is a key task of the Research Council of Norway (abbreviated RCN). Evaluations are reviews of how research fields, scientific disciplines and academic institutions are performing in the national and international context. R\&D statistics have been part of the knowledge base in previous evaluations and have contributed with data also in the evaluations started in 2022/2023 and over the next few years. They will cover biosciences, natural sciences, mathematics, informatics and technology, and medical and health science.

The main purpose of this report is to provide statistics and indicators on R\&D personnel within mathematics, informatics and technology. The R\&D personnel statistics are based on individual data from the Register of Research Personnel at Statistics Norway. The report is commissioned by the Research Council of Norway (RCN) and produced in collaboration with the Nordic institute for Studies in innovation, research and education (NIFU), by senior adviser Kristoffer Rørstad and head of group/senior adviser Kaja Wendt at Statistics Norway. Statistics Norway is responsible for data on R\&D personnel for the evaluated units, while NIFU conduct bibliometric studies.

Statistics Norway, 29 April 2024

Per Morten Holt


#### Abstract

The statistics and indicators presented in this report provide background data for the evaluation of mathematics, informatics and technology sciences (evalmit) conducted by The Research Council of Norway. Data are compiled by Statistics Norway and include data for 47 higher education units (university departments and faculties) and 10 research institutes (institute sector) for the years 2013, 2017 and 2021.


## Almost $\mathbf{5 0 0 0}$ researchers at the evaluation units in 2021

A total of 5580 R\&D personnel were employed at the evaluated units in 2021, about 3700 in the higher education sector and almost 1900 researchers at the research institutes. Since 2013, there has been a growth of about 1430 persons, or around 60 per cent in the higher education sector, while the growth of researchers in the institute sector was about 380 persons or 25 per cent.

## Low share of women in the higher education sector

For the higher educational units in the evaluation, the overall gender balance among researchers was 25 per cent women and 75 per cent men. The percentage of female researchers was significantly lower compared to the overall percentage of women in higher education, at 51 per cent, and for the personnel in all natural sciences units where women have a share of 37 per cent. However, in the field of engineering and technology, women account for 26 per cent of the research personnel, which is about the same level as for the evaluated units. At the research institutes, 29 per cent of the researchers were women. The gender balance is lower than average in the institute sector, which was 46 per cent in 2021.

## Younger researchers than average

The average age of the R\&D personnel at the higher education units was 39 years in 2021, which was a decrease of two years since 2013. Overall, the average age for all positions have been quite stable over the period. The average age for professors was 54 years for all three years. However, associated professors decreased in age from 48 years in 2013, to 45 years old in 2021. Compared with the total population of the higher education sectors, the population within this evaluation is younger. In the total population of the higher education sector, the average age was 45 years old in 2021, while professors were in average 56 years old. However, the average age of the total population in the higher education sector, within natural sciences and engineering and technology was 40 years old for both major fields.

The average age of the researchers among research institutes was 43 years old in 2021. This average age has been quite stable over time. However, the average age of all institutes in the institutes sector was 46 in 2021.

## A high share of foreign PhD-holder/citizens

About 40 per cent of the researchers in the evaluated units of the higher education sector had a foreign PhD-degree in 2021, indicating foreign citizenship. Among the professors, the share was also 40 per cent while the share among associate professors was 33 per cent. As many as 48 per cent of the researchers and postdocs had a foreign PhD-degree as well. Among the research institutes, 20 per cent of the researchers had a foreign PhD-degree.

## Sammendrag

Statistikk og indikatorer som presenteres i denne rapporten gir bakgrunnsdata for evalueringen av matematikk, informatikk og teknologivitenskap utført av Norges forskningsråd. Data er utarbeidet av Statistisk sentralbyrå og omfatter data for i alt 47 enheter (institutter og fakulteter) i universitetsog høgskolesektoren og 10 forskningsinstitutter i instituttsektoren for årene 2013, 2017 og 2021.

## Nesten $\mathbf{5} \mathbf{6 0 0}$ forskere var ansatt ved evalueringsenhetene i 2021

Totalt var det nesten 5580 forskere og andre faglige ansatte ved de evaluerte enhetene i 2021, om lag 3700 i universitets- og høgskolesektoren og nesten 1900 forskere ved forskningsinstituttene. Siden 2013 har det vært en vekst på om lag 1430 personer, eller rundt 60 prosent i universitets- og høgskolesektoren, mens veksten av forskere i instituttsektoren i samme periode var på om lag 380 personer eller 25 prosent.

## Lav kvinneandel blant evalueringsenhetene

For enhetene i universitets- og høgskolesektoren utgjorde kvinner 25 prosent. Dette var vesentlig lavere enn totalt i universitets- og høgskolesektoren, hvor kvinner utgjør mer enn halvparten, 51 prosent, av det vitenskapelige/faglige personalet. Blant personalet innenfor fagområdene matematikk og naturvitenskap er kvinneandelen på 37 prosent, og innenfor fagområdet teknologi utgjør kvinner 26 prosent. Kvinneandelen blant de evaluerte enhetene i universitets- og høgskolesektoren, er dermed på nivå med gjennomsnittet for fagområdet teknologi. Ved forskningsinstituttene som inngikk i evalueringen utgjorde kvinner 29 prosent. Til sammenligning var kvinneandelen totalt sett i instituttsektoren 46 prosent.

## Yngre forskere enn gjennomsnittet

Gjennomsnittsalderen blant personalet ved de evaluerte enhetene i universitets- og høgskolesektoren var 39 år i 2021, og dette var en nedgang på to år siden 2013. Samlet sett har gjennomsnittsalderen for alle stillingene vært ganske stabil over perioden. Gjennomsnittsalderen for professorer var 54 år i 2021, mens den for førsteamanuensene var 45 år. For professorene var gjennomsnittsalderen stabil gjennom perioden, mens den var fallende for førsteamanuensene, som var 48 år i gjennomsnitt i 2013.

Gjennomsnittsalderen for hele forskerpersonalet i universitets- og høgskolesektoren var 45 år i 2021, mens professorene i gjennomsnitt var 56 år. Innenfor de to fagområdene matematikk og naturvitenskap og teknolog var gjennomsnittsalderen for det samlede personalet 40 år. Alderen på personalet blant evalueringsenhetene var dermed på samme nivå som på fagområdene de tilhører, men yngre enn for hele universitets- og høgskolesektoren.

Gjennomsnittsalderen for forskerne blant forskningsinstituttene i evalueringen var 43 år i 2021. Til sammenligning var gjennomsnittsalderen for alle enheter i instituttsektoren imidlertid 46 år i 2021.

## En høy andel utenlandske Ph.d.-innehavere/borgere

Om lag 40 prosent av forskerne i de evaluerte enhetene i universitets- og høgskolesektoren hadde utenlandsk doktorgrad, noe som indikerer utenlandsk statsborgerskap. Blant professorene var andelen også 40 prosent mens andelen blant førsteamanuensis var 33 prosent. Hele 48 prosent av forskerne og postdoktorene hadde også utenlandsk Ph.d.-grad. Blant forskningsinstituttene hadde 20 prosent av forskerne utenlandsk Ph.d.-grad.

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## 1. Introduction

This report presents statistics and indicators for research and development (R\&D) personnel at department/institute level in the higher education and institute sectors for the units included in the ongoing evaluation of mathematics, informatics and technology in Norway conducted by the Research Council of Norway (RCN). Conducting evaluations of Norwegian research is a key task of the Research Council of Norway (abbreviated RCN). Evaluations are reviews of how research fields, scientific disciplines and academic institutions are performing in the national and international context. R\&D statistics have been part of the knowledge base in previous evaluations and will contribute with data also in the new round of evaluations started in 2022/2023 and over the next few years they will cover biosciences, natural sciences, mathematics, technology and medical and health science. The main aim of this evaluation is to assess the quality of Norwegian research within mathematics, informatics and technology, asses the framework conditions for the research and the research's relevance to key areas of society. The evaluation will result in recommendations to the evaluated institutions, the Research Council and the ministries¹.

The main intention of the report is to provide statistics and indicators on R\&D personnel within mathematics, informatics and technology. The R\&D personnel statistics are based on individual data from the Register of Research Personnel at Statistics Norway.

The report includes an overview of R\&D expenditure, by field of R\&D in the higher education sector of the last 20 years. Finally, we present an overview of the Norwegian research and innovation system.

First, we present personnel statistics for the higher education sector. Then, the units are presented separately. In the higher education sector, a total of 47 units are included in the evaluation, while 10 units are included from the institute sector. The purpose of the overall figures and tables is to give an overview of the research population of all evaluation units in the higher education for all indicators chosen for this evaluation. With these figures, the evaluated units can be compared with each other and with the average of all units as benchmark figures. A total of 5580 researchers, 3,704 researchers in the higher education sector, and 1876 researchers in the institute sector, were employed at the evaluated units in 2021, and included in this analysis.

### 1.1. The Norwegian research and innovation system

The Norwegian research and innovation system include many institutions with different roles. It is common to distinguish between three levels: the performing, the strategic and the political level. Extensive internationalisation also applies to Norwegian research and is increasingly important for all parts of the Norwegian R\&D system. ${ }^{2}$

## The performing level

At the performing level in Norway, there is the higher education sector (including university hospitals), the institute sector and the industrial sector. The higher education sector performed about one third of Norwegian R\&D activity in 2021. There is a broad variety of institutions in the higher education sector, including universities, state university colleges and private higher education institutions. At the same time, research activity is concentrated, as universities, including university hospitals, accounted for more than 87 per cent of the higher education sector's total R\&D expenditure in 2021. Compared with other countries, a relatively high share of Norwegian R\&D is

[^0]performed by research institutes (20 per cent). The Norwegian institute sector is rather heterogenous in terms of institute size, profile, and legal status. The sector includes both public sector-oriented and industry-oriented institutes, of which the latter group plays an important role in carrying out contract research for Norwegian and foreign companies. Even though the industrial sector accounts for nearly half the R\&D expenditure in Norway, the proportion of research performed in this sector is low compared with other countries. ${ }^{3}$ Given the resource-based structure of the economy, there are relatively few large R\&D-intensive companies in Norway.

## The strategic level

At the strategic level, there are several agencies that are important for Norwegian STI policy. The two most important players are the Research Council of Norway (RCN), which focuses on research and technological funding, and Innovation Norway, which focus on innovation. More than half of the budgetary funding for Norwegian R\&D activity goes through the Ministry of Education and Research and the RCN. The RCN has more than 25 per cent of public R\&D funding and receives funding from all 15 ministries. Innovation Norway encourages innovation at the regional and national level, with a focus on small and medium sized enterprises. SkatteFUNN, the R\&D tax incentive scheme, is organised under RCN and has become a major tool for encouraging innovation by supplying tax credits for the R\&D activity. In addition to RCN, Innovation Norway and SkatteFUNN, there are several other key players. SIVA encourages the development of science parks, incubators, and services to start-up firms. GIEK supplies long-term guarantees that encourage Norwegian industry to take part in more international trade and export. Enova, owned by the Ministry of Climate and Environment, encourages environmentally friendly production and consumption of energy and exploration of new sources of clean energy. Digdir (Norwegian Digitalisation Agency) aims to be the government's foremost tool for faster and more coordinated digitization of society. Finally, Norwegian Defence Research Establishment (FFI) aims to advance knowledge in artificial intelligence, additive manufacturing, quantum computing, nanotechnology, the Internet of Things, and autonomy.

## The political level

The Norwegian research and innovation system can be characterised by considerable pluralism at the political level. According to the "sector principle", all 15 ministries (after the 2021 election) are responsible for financing both short term and long-term research within their respective sectors. Hence, public research funding and science policy involves extensive coordination. At the same time R\&D funds are concentrated, as five ministries account for 85 per cent of total public R\&D funding, based on government budget allocations. The most important one is the Ministry of Education and Research. This ministry also prepares the long-term plan for research and higher education and is responsible for coordinating research policy across ministries at the national level. 11 Other important contributors are the Ministries of Trade, Industry and Fisheries, Health Care Services, Climate and Environment, Local Government and Modernisation and Defence. The Research Council of Norway (RCN) also supplies advice to the government on STI policy and network governance between various actors in the STI system.

## The S\&T statistical infrastructure

The production of STI statistics has historically been distributed across different parts of Norway's statistical system. The official statistical agency, Statistics Norway, is a key pillar. Since 2022 the agency produces R\&D and innovation statistics for all sectors, conducts evaluations and research and provides a macro and micro-data warehouse. R\&D statistics for the government and higher education sector were produced by NIFU since the 1960s. From 2022 this responsibility was

[^1]transferred to Statistics Norway. NIFU's staff who produced the statistics also moved to Statistics Norway. In this way the quality of the statistics has been maintained. Statistics Norway is from 2022 responsible for reporting all STI statistics to Eurostat and the OECD.

Norway has recently undergone a transformation in digital support services to the research and higher education sector by reforming the key agencies. The Norwegian Directorate for Higher Education and Skills (HK-dir) was established in 2021 and is subordinate to the Ministry of Education and Research. The Directorate is a result of the merger of Diku (Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education), Competence Norway, Universell and parts of Unit and the Norwegian Centre for Research Data (NSD) and has also been taking over tasks for the Norwegian Agency for Quality Assurance in Education (NOKUT). The Directorate has an overall, national responsibility for administrative tasks within higher education, higher vocational education and competence policy and gives advice to the ministry, implements the policy, and coordinates the tools. In 2022, an additional agency under the Ministry of Education and Research was established: Sikt - Norwegian Agency for Shared Services in Education and Research. Its main tasks are to provide access to high-quality infrastructure, sharing of data and high information security in the sector.

The figure provides a simplified picture of the organisation and the division of labour in the R\&D and innovation system, including the international dimension (EU).

Figure 1.1 The Norwegian system of education, research and innovation. Main Science, Technology and Innovation (STI) actors in Norway ${ }^{1}$


[^2]
## 2. Data and methods

### 2.1. R\&D personnel data

Data on R\&D personnel cover department/research institutes for three years; 2013, 2017 and 2021. While the 2021-figures are the most relevant for the evaluation, figures from 2013 and 2017 are presented to show the development in the research population over a period of almost ten years. Statistics are also available for intermediate years. However, to reduce the amount of data presented, the analysis has been limited to these years. The statistics provide detailed information on these indicators:

- number of persons (researchers)
- share of women
- share of PhD-degrees
- share of foreign PhD-degrees
- average age
- share of persons above 62 years and older
- group of academic positions

In the higher education sector, the academic positions are grouped in these categories:

- professors (i.e., full professors),
- associate professors,
- researchers and postdoctoral fellows (postdocs)
- PhD-students

Other tenured staff (i.e., university lecturer, senior lecturer, head of department, docent, and dean) are excluded from the data since these positions have teaching as their main task.

The position structure in the institute sector is very diverse, the personnel in this sector is therefore not split in different groups.

About the indicators:

- number of persons (researchers): gives the scope of research of each unit and the total population of the evaluation. This can be considered as an input indicator.
- share of women gives information on gender for each academic position for all units, and the average of the evaluated units. To promote gender balance is a top priority for ethical, legal, quality reasons. In the EU as well as in the Research Council of Norway it is a high priority task to ensure that the best research talents and a breath of perspectives are included.
- share of PhD-degrees, gives a measure for the level of PhD-holders for all positions and units. A high level of PhD-degrees among the R\&D personnel can be a measure of high level of competence within a position group or a unit and provides information on the recruitment situation.
- share of foreign PhD-degrees, gives a measure of foreign researchers since most of the foreign PhD-holders in Norway are foreign researchers.
- average age provides information of the average age for all academic position, can be used to assess future recruitment needs.
- share of persons who are 62 years and older, provides information on the share of persons which have reached the age for contractual early retirement (AFP). The most common age for retirement in Norway is 67 years old. However, many professors at the universities work until
they are 70 years or older. A high level of R\&D personnel over 62 years indicates that recruitment needs in the next few years.
- group of academic positions show the composition of the staff and comparisons can highlight whether the composition is biased on top (professor) level or starting level (PhD-students).

A list of the units in the evaluation is presented for the higher education sector in Table 2.1 and the institutes sector in Table 2.2. The tables show how the administrative units correspond to the units in the Register of Research Personnel. In most cases, we have figures for all the units in the evaluations and on the same level. However, when data are missing, it is commented.

Table 2.1 Overview of the administrative units in the higher education sector. 2021.

| Institution | Department (Administrative unit) |
| :---: | :---: |
| Norwegian University of Life Sciences | Faculty of Science and Technology |
| Norwegian University of Science and Technology | Department of Architecture and Technology |
| Norwegian University of Science and Technology | Department of Civil and Environmental Engineering |
| Norwegian University of Science and Technology | Department of Computer Science |
| Norwegian University of Science and Technology | Department of Electric Power Engineering |
| Norwegian University of Science and Technology | Department of Electronic Systems |
| Norwegian University of Science and Technology | Department of Energy and Process Engineering |
| Norwegian University of Science and Technology | Department of Engineering Cybernetics |
| Norwegian University of Science and Technology | Department of Geoscience and Petroleum |
| Norwegian University of Science and Technology | Department of ICT and Natural Sciences |
| Norwegian University of Science and Technology | Department of Information Security and Communication Technology |
| Norwegian University of Science and Technology | Department of Manufacturing and Civil Engineering |
| Norwegian University of Science and Technology | Department of Marine Technology |
| Norwegian University of Science and Technology | Department of Mathematical Sciences |
| Norwegian University of Science and Technology | Department of Mechanical and Industrial Engineering |
| Norwegian University of Science and Technology | Department of Structural Engineering |
| Oslo Metropolitan University | Department of Built Environment |
| Oslo Metropolitan University | Department of Computer Science |
| Oslo Metropolitan University | Department of Mechanical, electronic and chemical engineering |
| University of Agder | Department of Information Systems |
| University of Agder | Faculty of Engineering and Science |
| University of Bergen | Department of Mathematics |
| University of Bergen | Department of Informatics |
| University of Bergen | Department of Physics and Technology |
| University of Oslo | Department of Informatics |
| University of Oslo | Department of Mathematics |
| University of Stavanger | Department of Electrical Engineering and Computer Science |
| University of Stavanger | Department of Mathematics and Physics |
| University of Stavanger | Department of Petroleum Engineering |
| University of Stavanger | Dept. of Mechanical and Structural Engineering and Materials Science |
| UiT The Arctic University of Norway | Department of Automation and Process Engineering |
| UiT The Arctic University of Norway | Department of Building, energy and material technology |
| UiT The Arctic University of Norway | Department of Computer Science |
| UiT The Arctic University of Norway | Department of Computer Science and Computational Engineering |
| UiT The Arctic University of Norway | Department of Electrical Engineering |
| UiT The Arctic University of Norway | Department of Industrial Technology |
| UiT The Arctic University of Norway | Department of Mathematics and Statistics |
| UiT The Arctic University of Norway | Department of Physics and Technology |
| UiT The Arctic University of Norway | Department of Technology and Safety |
| University of South-Eastern Norway | Department of Business and IT |
| University of South-Eastern Norway | Department of Microsystems |
| University of South-Eastern Norway | Department of Process, energy and environmental technology |
| University of South-Eastern Norway | Department of Science and Industry systems |
| University of South-Eastern Norway | Department of electrical engineering, IT and cybernetics |
| Western Norway University of Applied Sciences | Faculty of Engineering and Science |
| Østfold University college | Faculty of Computer Science, engineering and economics |

Table 2.2 Overview of administrative units in the institute sector. 2021

| Research institute |
| :--- |
| Norce Technology |
| SIMULA Research Laboratory |
| Institute for Energy Technology |
| Si Ocean |
| Norwegian Computing Center |
| Sintef Community |
| Sintef Digital |
| Sintef Energy |
| Sintef Industri |
| Sintef Manufacturing |

### 2.2. The Register of Research Personnel

The Register of Research Personnel at Statistics Norway is a part of the national R\&D statistics. The register contains individual-level data on researchers/academic staff involved in R\&D and higher administrative staff in the higher education sector and in the institute sector, including health trusts with and without university functions. It provides data on individuals employed in positions which require competence at the master's degree level or higher. Researchers in the higher education sector are identified by their position codes. The database contains individuals with at least 25 per cent employment.

The register contains the following variables for each individual including their name, national identification number, age, gender, academic position, affiliation by institution, faculty, department, education (degree, field and year), doctoral degree (type, field, year, country), subject field (i.e., department field).

The main sources of information for this register are the higher education institutions, health trusts and the research institutes. From 2016 the data on the higher education sector is mainly obtained via the Database for higher education (DBH) at the Directorate for Higher Education and Skills (HKdirectorate) which receive data from the higher education institutions.

### 2.3. R\&D expenditure

In this report, current R\&D expenditure are included to show the research volume measured by expenditure. Current expenditure includes salary, other personnel, and other current costs, while investments for equipment and building costs are excluded. R\&D expenditure are, together with personnel statistics an input indicator for resources to R\&D.

### 2.4. Field classification in the higher education sector

In the official R\&D statistics of the higher education sector, all university departments are assigned to one, and only one field of R\&D (e.g., mathematics, informatics, and so on). In the R\&D statistical questionnaire, each unit can classify the research in many fields. However, since the unit can only be assigned to one specific field, the largest field in this classification, will be the assigned field for the unit. This principle is called the maximum classification criteria and is used in the official figures of R\&D statistics. However, most university departments conduct research within several fields. Due to the abovementioned principle of classification, this will not appear in the official R\&D statistics. In some analysis, it is useful to show the entire width of research fields of the unit (from the R\&D questionnaire) by specific field classification. In this evaluation, we will present figures using both methods. When the specific field classification is used, it will be stated.

In the official R\&D statistics, all field are divided into six major fields of R\&D. The fields in this evaluation are assigned to either natural sciences, or engineering and technology. Mathematics and informatics are assigned to natural sciences, while technology fields, are assigned to engineering and technology.

## 3. R\&D personnel in the higher education sector

This part includes R\&D personnel statistics for the units in the higher education sector. The first tables contain aggregated data and summary tables for the units included in the evaluation. Then statistics for each unit (i.e. university department) are presented.

### 3.1. Overall R\&D personnel figures

R\&D personnel within the evaluation units included about 3700 persons working in the higher education sector in 2021. The total number of researchers increased notably over the years, from about 2272 in 2013 to 3051 in 2017, and further to 3704 in 2021, which amounted to a growth of about 63 per cent.

The largest field of R\&D which the units were assigned to, in terms of both numbers of units and numbers of researchers, was Information and communication technology with 6 units and 630 researchers. The second largest single field of R\&D was informatics, and then followed mathematics with 328 researchers in 2021.

Table 3.1 Number of researchers participating in the evalmit evaluation in the higher education sector by fields of R\&D (assigned fields of the units) in 2013, 2017 and 2021

| Fields | Number of units | 2013 | 2017 | $\begin{array}{rr} \hline & \text { Growth in per } \\ \text { cent (2013- } \\ 2021 & 2021) \\ \hline \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Architecture and buildings | 4 | 216 | 221 | 243 | 13 |
| Electronics | 2 | 49 | 58 | 99 | 102 |
| Environemental technology | 1 | 115 | 167 | 188 | 63 |
| Informatics | 3 | 240 | 283 | 371 | 55 |
| Information and communication technology | 6 | 323 | 430 | 630 | 95 |
| Library and information science | 1 | 13 | 20 | 32 | 146 |
| Marine technology | 1 | 96 | 109 | 113 | 18 |
| Mathematics | 4 | 220 | 284 | 328 | 49 |
| Petroleum and geosciences | 2 | 128 | 187 | 128 | 0 |
| Physics | 2 | 128 | 148 | 217 | 70 |
| Economics and ICT | 1 | 9 | 12 | 16 | 78 |
| Unspecified engineering and technology | 15 | 420 | 686 | 841 | 100 |
| Unspecified natural sciences | 5 | 315 | 446 | 498 | 58 |
| Total | 47 | 2,272 | 3,051 | 3,704 | 63 |

However, a total of 15 units are assigned to the unspecified field of engineering and technology with a total of 841 researchers.

The number of researchers participating in the evaluation in 2021 by fields of R\&D are presented in figure 3.1 by descending order of fields.

Figure 3.1 Number of researchers participating in the evalmit evaluation in the higher education sector by fields of R\&D (assigned fields of the units) in 2021


Source: Statistics Norway
In total, there were about 750 professors, 770 associate professors, around 600 researchers and postdocs and almost 1600 PhD -students. Although all of the personnel groups increased in the period, researchers and postdocs and PhD-students had the largest relative growth with about 103 and 73 per cent respectively.

Figure 3.2 Total number of researchers in the higher education sector by academic positions in 2013, 2017 and 2021. Units in the evalmit


Source: Statistics Norway
The share of position groups was quite stable throughout the period from 2013 to 2021, but tenured staff (i.e. professors and associate professors) decreased from about 45 per cent in total in 2013, to 40 per cent in 2021. At the same time, researchers, postdocs, and PhD-students had an equivalent increase, from around 55 per cent to 60 per cent. If we look at the academic positions separately,
professors decreased 5 percentage point and associated professors only one percentage point. The share researchers and postdocs accounted for increased by 3 percentage point while PhD-students increased by 2 percentage points. The detailed 2021-figures of all units for both absolute and relative numbers are presented in Table 3.2 and Table 3.3.

Figure 3.3 Share of researchers by academic positions at university departments in 2013, 2017 and 2021. Units in the evalmit


Source: Statistics Norway
For the units in the evaluation, the overall gender balance is 75 per cent men and 25 per cent women among the researchers (Figure 3.4). The share of women is substantially lower than in the total higher education where women account for 51 per cent, and for the personnel in all natural sciences units where women have a share of 37 per cent. However, in the field of engineering and technology, women account for 26 per cent of the research personnel, which is about the same level as in the evaluated units.

The gender balance varies among the position groups but approximately the same for both associate professors and researchers, where women account for about 25 per cent and almost 30 per cent of the PhD-students. However, only 15 per cent of the professor are women. At the bright side, the share of women among professors has increased most since 2013, when only 10 per cent were women. Statistics on these indicators for each unit are presented in Table 3.5.

Figure 3.4 Share of female researchers by academic position in 2013, 2017 and 2021. Units in the evalmit


Source: Statistics Norway
The average age of the population of the units was 39 years in 2021 , which was a decrease of two years since 2013. Overall, the average age for all positions have been quite stable over the period. The average age for professors was 54 years for all three years. However, associated professors decreased in age from 48 years in 2013, to 45 years old in 2021. The average age for the postdoc and researchers was 36 years and 30 years for the PhD-students (figure 3.5).

Compared with the total population of the higher education sectors, the population within this evaluation is younger. In the total population of the higher education sector, the average age was 45 years old in 2021, while professors were in average 56 years old. However, the average age of the total population in the higher education sector, within natural sciences and engineering and technology, was 40 years old for both major fields.

Figure 3.5 Average age of the researchers by academic position in 2013, 2017 and 2021. Units in the evalmit.


Source: Statistics Norway
The official retirement age in Norway is 67 years, but it is possible to retire at 62 years. Figure 3.6 shows the share of the population among the units which are 62 years and older. About 26 per cent of the population of the professors were at least 62 years. Among the associate professors, 7 per cent were 62 years or older. For detailed information of average age by position and share of professors aged 62 years or older at department level, this information is provided in Table 3.8.

Figure 3.6 Share of researchers aged 62 years and older by academic position in 2013, 2017 and 2021. Units in the evalmit


Source: Statistics Norway
Most of the professors and associate professors are doctoral holders, and as expected almost 100 per cent of these positions have a PhD-degree (figure 3.7). While 97 per cent of the professors, and 94 per cent of the associate professors had a PhD-degree in 2021, 88 per cent of the researchers
and postdocs had a PhD. In total, 93 per cent of these position had a PhD-degree. However, if we look at the density of doctoral holders in 2013, about 90 per cent of the staff had a Ph.D.-degree. The density of PhD-degrees has increased for both professors and associate professors since 2013 when about 90 per cent had a PhD-degree. The details at department level, are provided in Table 3.6.

Figure 3.7 Share of researchers with PhD-degree by academic position in 2013, 2017 and 2021. Units in the evaluation


Source: Statistics Norway

We are assuming that most of the foreign PhD-degree holders are foreign researchers. With this assumption, foreign researchers account for 40 per cent of the population in 2021. The share of foreign researchers (i.e. foreign PhD-holders) has increased quite rapidly from 2013, when the share was 28 per cent. Among the professors, the share was also 40 per cent in 2021 , and had the same increased as the total population. Among the associate professors, the share of foreign citizens (i.e. foreign PhD-holders), was 33 per cent. The largest share of foreign citizens was among researchers and post. docs. where almost half of them, 48 per cent, had a foreign PhD-degree. Details at department level, are provided in table 3.7.

In addition to the researchers with a foreign PhD-degree, there are foreign PhD-students who completes their doctoral degree in Norway. In 2021, 44 per cent of all the PhD-students who were awarded a doctoral degree were foreign citizen, and within natural sciences and engineering and technology, the share was 63 and 59 per cent respectively. This means we can assume that foreign citizens account for about half of the research population within these fields.

The total share of foreign researchers in Norway was 32 per cent in 2021, and within natural sciences and engineering and technology, almost half of them (48 per cent) of the research population had a foreign $\mathrm{PhD}^{4}$.

[^3]Figure 3.8 Share of researchers with foreign PhD-degree by academic position in 2013, 2017 and 2021. Units in the evaluation.


Source: Statistics Norway
Table 3.2 shows all the units in the higher education sector included in the evaluation, and total number of researchers in 2013, 2017 and 2021, including the field of R\&D they are assigned to, according to the maximum classification criteria (see section 2.4). A total of 15 units are assigned to the unspecified engineering and technical field, which means that the research is not assigned to one single field. A summary of the fields and numbers of units which are assigned to each field, are shown in Table 3.1.

Table 3.3 presents the number of researchers by academic position for each unit which is included in this evaluation. The following Table 3.4 is presenting the share each academic position constitutes. In both tables, PhD-students is by far the largest group, and constitute 43 per cent of the population, which is more than the professors and associate professors with about 20 per cent each. The smallest group consists of researchers and postdocs, accounting for 16 per cent of the population.

Table 3.5 presents the gender balance for each of the units by academic position in 2021. The share of female professors is only 15 per cent. This is lower than for the professors within both engineering and technology and natural sciences, which was 17 and 21 per cent respectively. The share of female professors among the units is also quite skewed and varies from zero female professors for six of the units to a share of 60 per cent.

The share of female associate professors for all the units is 26 per cent. This is the same as for whole population within engineering and technology in the higher education sector, but lower than for associate professors within natural sciences which was 39 per cent in 2021.

Table 3.2 Number of researchers in the units in the higher education sector by main field of R\&D in 2013, 2017 and 2021

| Institution, Department | Field of R\&D in 2021 | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and |  |  |  |  |
| Technology | Unspecified engineering and technology | 9 | 10 | 33 |
| NMBU, Faculty of Science and Technology | Unspecified natural sciences | 87 | 91 | 145 |
| NTNU, Department of Architecture and Technology | Architecture | 24 | 38 | 46 |
| NTNU, Department of Civil and Environmental Engineering | Architecture | 186 | 153 | 154 |
| NTNU, Department of Computer Science | Information and communication technology | 86 | 143 | 222 |
| NTNU, Department of Electric Power Engineering | Electronics | 49 | 49 | 83 |
| NTNU, Department of Electronic Systems | Information and communication technology | 68 | 80 | 99 |
| NTNU, Department of Energy and Process Engineering | Environemental technology | 115 | 167 | 188 |
| NTNU, Department of Engineering Cybernetics | Information and communication technology | 73 | 85 | 136 |
| NTNU, Department of Geoscience and Petroleum | Petroleum and geosciences | 81 | 110 | 88 |
| NTNU, Department of ICT and Natural Sciences | Information and communication technology | 16 | 16 | 25 |
| NTNU, Department of Information Security and Communication Technology | Information and communication technology | 54 | 69 | 100 |
| NTNU, Department of Manufacturing and Civil Engineering | Unspecified engineering and technology | 38 | 40 | 45 |
| NTNU, Department of Marine Technology | Marine technology | 96 | 109 | 113 |
| NTNU, Department of Mathematical Sciences | Mathematics | 106 | 118 | 154 |
| NTNU, Department of Mechanical and Industrial Engineering | Unspecified engineering and technology | 35 | 119 | 143 |
| NTNU, Department of Structural Engineering | Unspecified engineering and technology | 65 | 104 | 104 |
| OsloMet, Department of Computer Science | Unspecified natural sciences | 25 | 36 | 52 |
| OsloMet, Department of Mechanical, Electronic and Chemical Engineering | Unspecified engineering and technology | 14 | 17 | 28 |
| UIA, Department of Information Systems | Library and information science | 13 | 20 | 32 |
| UIA, Faculty of Engineering and Science | Unspecified engineering and technology | 116 | 164 | 206 |
| UIB, Department of Physics and Technology | Physics | 87 | 84 | 111 |
| UIO, Department of Informatics | Informatics | 148 | 174 | 219 |
| UIO, Department of Mathematics | Mathematics | 92 | 123 | 114 |
| UIS, Department of Electrical Engineering and Computer Science | Information and communication technology | 26 | 37 | 48 |
| UIS, Department of Petroleum Engineering | Petroleum and geosciences | 47 | 77 | 40 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials |  |  |  |  |
| Science | Unspecified engineering and technology | 22 | 34 | 39 |
| UIT, Department of Building, Energy and Material Technology | Architecture and building |  | 11 | 22 |
| UIT, Department of Computer Science | Informatics | 21 | 19 | 49 |
| UIT, Department of Electrical Engineering | Electronics |  | 9 | 16 |
| UIT, Department of Industrial Technology | Unspecified engineering and technology |  | 9 | 16 |
| UIT, Department of Mathematics and Statistics | Mathematics | 22 | 24 | 37 |
| UIT, Department of Physics and Technology | Physics | 41 | 64 | 106 |
| UIT, Department of Technology and Safety | Unspecified engineering and technology | 15 | 23 | 35 |
| USN, Department of Business and IT | Social sciences | 9 | 12 | 16 |
| USN, Department of elecrical engineering, IT and cybernetics | Unspecified engineering and technology | 29 | 23 | 23 |
| USN, Department of Microsystems | Unspecified engineering and technology | 22 | 42 | 50 |
| USN, Department of Process, Energy and Environmental Technology | Unspecified engineering and technology | 31 | 33 | 42 |
| USN, Department of Science and Industry systems | Unspecified engineering and technology |  | 23 | 30 |
| UIB, Department of Informatics | Informatics | 71 | 90 | 103 |
| UIB, Deparment of Matematics | Unspecified natural sciences | 55 | 64 | 70 |
| OsloMet, Department of Built Environment | Architecture and building | 6 | 19 | 21 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | Unspecified engineering and technology | 24 | 36 | 35 |
| UIS, Department of Mathematics and Physics | Unspecified natural sciences | 57 | 74 | 41 |
| UIT, Department of Automation and Process Engineering | Unspecified engineering and technology |  | 9 | 12 |
| UIT, Department of Computer Science and Computational Engineering | Mathematics |  | 19 | 23 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | Unspecified natural sciences | 91 | 181 | 190 |
| Total |  | 2272 | 3051 | 3704 |

Source: Statistics Norway

Table 3.3 Number of researchers by academic position and university department in 2021

| Institution, department | Professors | Associate professors | Researchers and postdocs | PhD-students | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and |  |  |  |  |  |
| Technology | 7 | 17 | 5 | 4 | 33 |
| NMBU, Faculty of Science and Technology | 25 | 40 | 33 | 47 | 145 |
| NTNU, Department of Architecture and Technology | 10 | 17 | 2 | 17 | 46 |
| NTNU, Department of Civil and Environmental Engineering | 37 | 17 | 26 | 74 | 154 |
| NTNU, Department of Computer Science | 35 | 49 | 29 | 109 | 222 |
| NTNU, Department of Electric Power Engineering | 12 | 12 | 10 | 49 | 83 |
| NTNU, Department of Electronic Systems | 26 | 11 | 15 | 47 | 99 |
| NTNU, Department of Energy and Process Engineering | 32 | 14 | 42 | 100 | 188 |
| NTNU, Department of Engineering Cybernetics | 15 | 10 | 14 | 97 | 136 |
| NTNU, Department of Geoscience and Petroleum | 24 | 11 | 12 | 41 | 88 |
| NTNU, Department of ICT and Natural Sciences | 5 | 7 | 0 | 13 | 25 |
| NTNU, Department of Information Security and Communication |  |  |  |  |  |
| Technology | 21 | 14 | 21 | 44 | 100 |
| NTNU, Department of Manufacturing and Civil Engineering | 6 | 20 | 3 | 16 | 45 |
| NTNU, Department of Marine Technology | 19 | 6 | 21 | 67 | 113 |
| NTNU, Department of Mathematical Sciences | 35 | 28 | 22 | 69 | 154 |
| NTNU, Department of Mechanical and Industrial Engineering | 19 | 21 | 20 | 83 | 143 |
| NTNU, Department of Structural Engineering | 20 | 8 | 30 | 46 | 104 |
| OsloMet, Department of Built Environment | 5 | 11 | 0 | 5 | 21 |
| OsloMet, Department of Computer Science | 13 | 23 | 4 | 12 | 52 |
| OsloMet, Department of Mechanical, Electronic and Chemical Engineering | 7 | 11 | 2 | 8 | 28 |
| UIA, Department of Information Systems | 12 | 8 | 2 | 10 | 32 |
| UIA, Faculty of Engineering and Science | 50 | 53 | 21 | 82 | 206 |
| UIB, Department of Mathematics | 22 | 10 | 13 | 25 | 70 |
| UIB, Department of Informatics | 18 | 14 | 27 | 44 | 103 |
| UIB, Department of Physics and Technology | 23 | 11 | 31 | 46 | 111 |
| UIO, Department of Informatics | 40 | 27 | 50 | 102 | 219 |
| UIO, Department of Mathematics | 26 | 13 | 30 | 45 | 114 |
| UIS, Department of Electrical Engineering and Computer Science | 10 | 9 | 4 | 25 | 48 |
| UIS, Department of Mathematics and Physics | 10 | 12 | 4 | 15 | 41 |
| UIS, Department of Petroleum Engineering | 7 | 7 | 7 | 19 | 40 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials |  |  |  |  |  |
| UIT, Department of Automation and Process Engineering | 0 | 9 | 0 | 3 | 12 |
| UIT, Department of Building, Energy and Material Technology | 3 | 8 | 3 | 8 | 22 |
| UIT, Department of Computer Science | 10 | 9 | 8 | 22 | 49 |
| UIT, Department of Computer Science and Computational Engineering | 7 | 9 | 0 | 7 | 23 |
| UIT, Department of Electrical Engineering | 2 | 7 | 1 | 6 | 16 |
| UIT, Department of Industrial Technology | 2 | 5 | 1 | 8 | 16 |
| UIT, Department of Mathematics and Statistics | 7 | 10 | 4 | 16 | 37 |
| UIT, Department of Physics and Technology | 15 | 8 | 37 | 46 | 106 |
| UIT, Department of Technology and Safety | 7 | 13 | 1 | 14 | 35 |
| USN, Department of Business and IT | 6 | 10 | 0 | 0 | 16 |
| USN, Department of Microsystems | 11 | 11 | 12 | 16 | 50 |
| USN, Department of Process, Energy and Environmental Technology | 10 | 15 | 3 | 14 | 42 |
| USN, Department of Science and Industry systems | 14 | 12 | 1 | 3 | 30 |
| USN, Department of electrical engineering, IT and cybernetics | 6 | 8 | 0 | 9 | 23 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | 36 | 89 | 21 | 44 | 190 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | 10 | 25 | 0 | 0 | 35 |
| Total | 746 | 768 | 595 | 1595 | 3704 |

Source: Statistics Norway

Table 3.4 Share of researchers by academic positions and university departments in 2021

| Institution, department | Professors | Associate professors | Researchers and postdocs | PhD-students |
| :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and |  |  |  |  |
| Technology | 21 | 52 | 15 | 12 |
| NMBU, Faculty of Science and Technology | 17 | 28 | 23 | 32 |
| NTNU, Department of Architecture and Technology | 22 | 37 | 4 | 37 |
| NTNU, Department of Civil and Environmental Engineering | 24 | 11 | 17 | 48 |
| NTNU, Department of Computer Science | 16 | 22 | 13 | 49 |
| NTNU, Department of Electric Power Engineering | 14 | 14 | 12 | 59 |
| NTNU, Department of Electronic Systems | 26 | 11 | 15 | 47 |
| NTNU, Department of Energy and Process Engineering | 17 | 7 | 22 | 53 |
| NTNU, Department of Engineering Cybernetics | 11 | 7 | 10 | 71 |
| NTNU, Department of Geoscience and Petroleum | 27 | 13 | 14 | 47 |
| NTNU, Department of ICT and Natural Sciences | 20 | 28 | 0 | 52 |
| NTNU, Department of Information Security and Communication |  |  |  |  |
| Technology | 21 | 14 | 21 | 44 |
| NTNU, Department of Manufacturing and Civil Engineering | 13 | 44 | 7 | 36 |
| NTNU, Department of Marine Technology | 17 | 5 | 19 | 59 |
| NTNU, Department of Mathematical Sciences | 23 | 18 | 14 | 45 |
| NTNU, Department of Mechanical and Industrial Engineering | 13 | 15 | 14 | 58 |
| NTNU, Department of Structural Engineering | 19 | 8 | 29 | 44 |
| OsloMet, Department of Built Environment | 24 | 52 | 0 | 24 |
| OsloMet, Department of Computer Science | 25 | 44 | 8 | 23 |
| OsloMet, Department of Mechanical, Electronic and Chemical Engineering | 25 | 39 | 7 | 29 |
| UIA, Department of Information Systems | 38 | 25 | 6 | 31 |
| UIA, Faculty of Engineering and Science | 24 | 26 | 10 | 40 |
| UIB, Department of Mathematics | 31 | 14 | 19 | 36 |
| UIB, Department of Informatics | 17 | 14 | 26 | 43 |
| UIB, Department of Physics and Technology | 21 | 10 | 28 | 41 |
| UIO, Department of Informatics | 18 | 12 | 23 | 47 |
| UIO, Department of Mathematics | 23 | 11 | 26 | 39 |
| UIS, Department of Electrical Engineering and Computer Science | 21 | 19 | 8 | 52 |
| UIS, Department of Mathematics and Physics | 24 | 29 | 10 | 37 |
| UIS, Department of Petroleum Engineering | 18 | 18 | 18 | 48 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials |  |  |  |  |
| UIT, Department of Automation and Process Engineering | 0 | 75 | 0 | 25 |
| UIT, Department of Building, Energy and Material Technology | 14 | 36 | 14 | 36 |
| UIT, Department of Computer Science | 20 | 18 | 16 | 45 |
| UIT, Department of Computer Science and Computational Engineering | 30 | 39 | 0 | 30 |
| UIT, Department of Electrical Engineering | 13 | 44 | 6 | 38 |
| UIT, Department of Industrial Technology | 13 | 31 | 6 | 50 |
| UIT, Department of Mathematics and Statistics | 19 | 27 | 11 | 43 |
| UIT, Department of Physics and Technology | 14 | 8 | 35 | 43 |
| UIT, Department of Technology and Safety | 20 | 37 | 3 | 40 |
| USN, Department of Business and IT | 38 | 63 | 0 | 0 |
| USN, Department of Microsystems | 22 | 22 | 24 | 32 |
| USN, Department of Process, Energy and Environmental Technology | 24 | 36 | 7 | 33 |
| USN, Department of Science and Industry systems | 47 | 40 | 3 | 10 |
| USN, Department of electrical engineering, IT and cybernetics | 26 | 35 | 0 | 39 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | 19 | 47 | 11 | 23 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | 29 | 71 | 0 | 0 |
| Total | 20 | 21 | 16 | 43 |

Source: Statistics Norway

Table 3.5 Share of female researchers by academic positions and university department in 2021

| Institution, department | Professors | Associate professors | Researchers and postdocs | PhD-students | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and |  |  |  |  |  |
| Technology | 0 | 35 | 60 | 25 | 30 |
| NMBU, Faculty of Science and Technology | 20 | 25 | 36 | 40 | 32 |
| NTNU, Department of Architecture and Technology | 30 | 47 | 50 | 35 | 39 |
| NTNU, Department of Civil and Environmental Engineering | 14 | 35 | 27 | 31 | 27 |
| NTNU, Department of Computer Science | 17 | 22 | 24 | 38 | 29 |
| NTNU, Department of Electric Power Engineering | 17 | 0 | 0 | 18 | 13 |
| NTNU, Department of Electronic Systems | 12 | 36 | 20 | 23 | 21 |
| NTNU, Department of Energy and Process Engineering | 13 | 7 | 17 | 31 | 23 |
| NTNU, Department of Engineering Cybernetics | 20 | 10 | 21 | 18 | 18 |
| NTNU, Department of Geoscience and Petroleum | 8 | 18 | 33 | 27 | 22 |
| NTNU, Department of ICT and Natural Sciences | 0 | 29 | 0 | 31 | 24 |
| NTNU, Department of Information Security and Communication |  |  |  |  |  |
| Technology | 10 | 29 | 10 | 36 | 24 |
| NTNU, Department of Manufacturing and Civil Engineering | 17 | 30 | 0 | 13 | 20 |
| NTNU, Department of Marine Technology | 16 | 33 | 10 | 21 | 19 |
| NTNU, Department of Mathematical Sciences | 20 | 25 | 27 | 16 | 20 |
| NTNU, Department of Mechanical and Industrial Engineering | 11 | 19 | 25 | 37 | 29 |
| NTNU, Department of Structural Engineering | 15 | 13 | 17 | 26 | 20 |
| OsloMet, Department of Built Environment | 60 | 27 | 0 | 0 | 29 |
| OsloMet, Department of Computer Science | 15 | 26 | 25 | 42 | 27 |
| OsloMet, Department of Mechanical, Electronic and Chemical Engineering | 43 | 18 | 50 | 50 | 36 |
| UIA, Department of Information Systems | 33 | 25 | 0 | 90 | 47 |
| UIA, Faculty of Engineering and Science | 12 | 32 | 29 | 24 | 24 |
| UIB, Department of Mathematics | 14 | 20 | 8 | 28 | 19 |
| UIB, Department of Informatics | 11 | 21 | 15 | 27 | 20 |
| UIB, Department of Physics and Technology | 13 | 18 | 23 | 33 | 24 |
| UIO, Department of Informatics | 18 | 33 | 34 | 39 | 33 |
| UIO, Department of Mathematics | 12 | 31 | 33 | 22 | 24 |
| UIS, Department of Electrical Engineering and Computer Science | 10 | 22 | 0 | 24 | 19 |
| UIS, Department of Mathematics and Physics | 10 | 17 | 25 | 27 | 20 |
| UIS, Department of Petroleum Engineering | 14 | 0 | 0 | 32 | 18 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials |  |  |  |  |  |
| UIT, Department of Automation and Process Engineering | 0 | 22 | 0 | 0 | 17 |
| UIT, Department of Building, Energy and Material Technology | 33 | 13 | 67 | 63 | 41 |
| UIT, Department of Computer Science | 20 | 33 | 25 | 9 | 18 |
| UIT, Department of Computer Science and Computational Engineering | 14 | 22 | 0 | 29 | 22 |
| UIT, Department of Electrical Engineering | 50 | 14 | 0 | 17 | 19 |
| UIT, Department of Industrial Technology | 50 | 20 | 100 | 25 | 31 |
| UIT, Department of Mathematics and Statistics | 0 | 30 | 50 | 31 | 27 |
| UIT, Department of Physics and Technology | 20 | 25 | 30 | 33 | 29 |
| UIT, Department of Technology and Safety | 14 | 46 | 0 | 14 | 26 |
| USN, Department of Business and IT | 33 | 10 | 0 | 0 | 19 |
| USN, Department of Microsystems | 0 | 9 | 0 | 31 | 12 |
| USN, Department of Process, Energy and Environmental Technology | 20 | 13 | 0 | 43 | 24 |
| USN, Department of Science and Industry systems | 14 | 17 | 0 | 0 | 13 |
| USN, Department of electrical engineering, IT and cybernetics | 0 | 38 | 0 | 22 | 22 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | 14 | 38 | 38 | 27 | 31 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | 30 | 24 | 0 | 0 | 26 |
| Total | 15 | 26 | 24 | 29 | 25 |

Source: Statistics Norway

Table 3.6 Share of professors, associate professors and postdoc/researchers with PhD-degree in 2021

| Institution, department | Professors | Associate professors | Researchers and postdocs | Total |
| :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and Technology | 100 | 100 | 100 | 100 |
| NMBU, Faculty of Science and Technology | 100 | 83 | 76 | 85 |
| NTNU, Department of Architecture and Technology | 80 | 24 | 0 | 41 |
| NTNU, Department of Civil and Environmental Engineering | 100 | 88 | 92 | 95 |
| NTNU, Department of Computer Science | 100 | 90 | 79 | 90 |
| NTNU, Department of Electric Power Engineering | 100 | 100 | 80 | 94 |
| NTNU, Department of Electronic Systems | 100 | 100 | 93 | 98 |
| NTNU, Department of Energy and Process Engineering | 94 | 100 | 95 | 96 |
| NTNU, Department of Engineering Cybernetics | 100 | 100 | 100 | 100 |
| NTNU, Department of Geoscience and Petroleum | 100 | 100 | 92 | 98 |
| NTNU, Department of ICT and Natural Sciences | 80 | 100 | 0 | 92 |
| NTNU, Department of Information Security and Communication Technology | 100 | 100 | 91 | 96 |
| NTNU, Department of Manufacturing and Civil Engineering | 83 | 95 | 100 | 93 |
| NTNU, Department of Marine Technology | 95 | 100 | 81 | 89 |
| NTNU, Department of Mathematical Sciences | 97 | 96 | 100 | 98 |
| NTNU, Department of Mechanical and Industrial Engineering | 100 | 100 | 95 | 98 |
| NTNU, Department of Structural Engineering | 100 | 100 | 97 | 98 |
| OsloMet,, Department of Built Environment | 100 | 100 | 0 | 100 |
| OsloMet, Department of Computer Science | 92 | 100 | 25 | 90 |
| OsloMet,, Department of Mechanical, Electronic and Chemical Engineering | 100 | 100 | 50 | 95 |
| UIA, Department of Information Systems | 100 | 88 | 50 | 91 |
| UIA, Faculty of Engineering and Science | 94 | 100 | 95 | 97 |
| UIB, Deparment of Mathematics | 100 | 100 | 100 | 100 |
| UIB, Department of Informatics | 100 | 100 | 100 | 100 |
| UIB, Department of Physics and Technology | 100 | 100 | 100 | 100 |
| UIO, Department of Informatics | 98 | 100 | 88 | 94 |
| UIO, Department of Mathematics | 89 | 92 | 97 | 93 |
| UIS, Department of Electrical Engineering and Computer Science | 100 | 89 | 100 | 96 |
| UIS, Department of Mathematics and Physics | 100 | 92 | 100 | 96 |
| UIS, Department of Petroleum Engineering | 100 | 100 | 100 | 100 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials Science | 89 | 100 | 67 | 91 |
| UIT, Department of Automation and Process Engineering | . | 100 | 0 | 100 |
| UIT, Department of Building, Energy and Material Technology | 100 | 100 | 33 | 86 |
| UIT, Department of Computer Science | 90 | 89 | 38 | 74 |
| UIT, Department of Computer Science and Computational Engineering | 100 | 100 | 0 | 100 |
| UIT, Department of Electrical Engineering | 100 | 100 | 100 | 100 |
| UIT, Department of Industrial Technology | 100 | 100 | 100 | 100 |
| UIT, Department of Mathematics and Statistics | 100 | 80 | 50 | 81 |
| UIT, Department of Physics and Technology | 100 | 88 | 92 | 93 |
| UIT, Department of Technology and Safety | 100 | 92 | 100 | 95 |
| USN, Department of Business and IT | 67 | 80 | 0 | 75 |
| USN, Department of Microsystems | 100 | 100 | 83 | 94 |
| USN, Department of Process, Energy and Environmental Technology | 90 | 93 | 67 | 89 |
| USN, Department of Science and Industry systems | 93 | 92 | 100 | 93 |
| USN, Department of electrical engineering, IT and cybernetics | 100 | 100 | 0 | 100 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | 97 | 96 | 57 | 90 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | 90 | 100 | 0 | 97 |
| Total | 97 | 94 | 88 | 53 |

Source: Statistics Norway

Table 3.7 Share of professors, associate professors, and postdoc/researchers with foreign PhD-degree in 2021

| Institution, department | Professors | Associate professors | Researchers and postdocs | Total |
| :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and Technology | 43 | 41 | 40 | 41 |
| NMBU, Faculty of Science and Technology | 28 | 28 | 36 | 31 |
| NTNU, Department of Architecture and Technology | 20 | 12 | 0 | 14 |
| NTNU, Department of Civil and Environmental Engineering | 19 | 47 | 35 | 30 |
| NTNU, Department of Computer Science | 40 | 37 | 45 | 40 |
| NTNU, Department of Electric Power Engineering | 25 | 42 | 40 | 35 |
| NTNU, Department of Electronic Systems | 54 | 9 | 60 | 46 |
| NTNU, Department of Energy and Process Engineering | 38 | 43 | 57 | 48 |
| NTNU, Department of Engineering Cybernetics | 40 | 10 | 43 | 33 |
| NTNU, Department of Geoscience and Petroleum | 50 | 36 | 58 | 49 |
| NTNU, Department of ICT and Natural Sciences | 40 | 29 | 0 | 33 |
| NTNU, Department of Information Security and Communication Technology | 67 | 50 | 52 | 57 |
| NTNU, Department of Manufacturing and Civil Engineering | 50 | 30 | 67 | 38 |
| NTNU, Department of Marine Technology | 11 | 17 | 38 | 24 |
| NTNU, Department of Mathematical Sciences | 43 | 50 | 73 | 53 |
| NTNU, Department of Mechanical and Industrial Engineering | 53 | 29 | 25 | 35 |
| NTNU, Department of Structural Engineering | 20 | 25 | 37 | 29 |
| OsloMet, Department of Built Environment | 40 | 64 | 0 | 56 |
| OsloMet,, Department of Computer Science | 46 | 30 | 25 | 35 |
| OsloMet, Department of Mechanical, Electronic and Chemical Engineering | 86 | 18 | 50 | 45 |
| UIA, Department of Information Systems | 42 | 25 | 0 | 32 |
| UIA, Faculty of Engineering and Science | 56 | 34 | 52 | 46 |
| UIB, Department of Mathematics | 46 | 60 | 62 | 53 |
| UIB, Department of Informatics | 83 | 43 | 63 | 64 |
| UIB, Department of Physics and Technology | 35 | 18 | 52 | 40 |
| UIO, Department of Informatics | 48 | 33 | 48 | 44 |
| UIO, Department of Mathematics | 42 | 62 | 63 | 55 |
| UIS, Department of Electrical Engineering and Computer Science | 10 | 44 | 25 | 26 |
| UIS, Department of Mathematics and Physics | 60 | 83 | 75 | 73 |
| UIS, Department of Petroleum Engineering | 43 | 0 | 29 | 24 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials Science | 11 | 33 | 67 | 29 |
| UIT, Department of Automation and Process Engineering | 0 | 11 | 0 | 11 |
| UIT, Department of Building, Energy and Material Technology | 67 | 13 | 0 | 21 |
| UIT, Department of Computer Science | 30 | 56 | 38 | 41 |
| UIT, Department of Computer Science and Computational Engineering | 29 | 11 | 0 | 19 |
| UIT, Department of Electrical Engineering | 0 | 57 | 100 | 50 |
| UIT, Department of Industrial Technology | 50 | 40 | 100 | 50 |
| UIT, Department of Mathematics and Statistics | 57 | 30 | 50 | 43 |
| UIT, Department of Physics and Technology | 40 | 38 | 62 | 53 |
| UIT, Department of Technology and Safety | 43 | 31 | 100 | 38 |
| USN, Department of Business and IT | 33 | 50 | 0 | 44 |
| USN, Department of Microsystems | 64 | 18 | 33 | 38 |
| USN, Department of Process, Energy and Environmental Technology | 10 | 20 | 33 | 18 |
| USN, Department of Science and Industry systems | 43 | 25 | 100 | 37 |
| USN, Department of electrical engineering, IT and cybernetics | 33 | 25 | 0 | 29 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | 39 | 24 | 24 | 27 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | 40 | 28 | 0 | 31 |
| Total | 41 | 33 | 48 | 23 |

Source: Statistics Norway

Table 3.8 Average age of researchers by professors, associate professors, researchers and postdoc, and share of professors 62 years and older, in 2021

| Institution, department | Professors | Associate professors | Researchers and postdocs | Share professors aged 62 or older |
| :---: | :---: | :---: | :---: | :---: |
| Kristiania university college, School of Economics, Innovation and Technology | 50 | 42 | 39 | 29 |
| NMBU, Faculty of Science and Technology | 56 | 47 | 37 | 36 |
| NTNU, Department of Architecture and Technology | 57 | 54 | 44 | 40 |
| NTNU, Department of Civil and Environmental Engineering | 54 | 45 | 38 | 14 |
| NTNU, Department of Computer Science | 55 | 45 | 38 | 20 |
| NTNU, Department of Electric Power Engineering | 56 | 42 | 38 | 33 |
| NTNU, Department of Electronic Systems | 57 | 50 | 36 | 38 |
| NTNU, Department of Energy and Process Engineering | 53 | 43 | 34 | 34 |
| NTNU, Department of Engineering Cybernetics | 51 | 44 | 36 | 7 |
| NTNU, Department of Geoscience and Petroleum | 59 | 47 | 42 | 50 |
| NTNU, Department of ICT and Natural Sciences | 45 | 43 |  | 0 |
| NTNU, Department of Information Security and Communication Technology | 57 | 42 | 36 | 24 |
| NTNU, Department of Manufacturing and Civil Engineering | 50 | 48 | 45 | 0 |
| NTNU, Department of Marine Technology | 53 | 41 | 35 | 26 |
| NTNU, Department of Mathematical Sciences | 55 | 43 | 32 | 26 |
| NTNU, Department of Mechanical and Industrial Engineering | 52 | 45 | 32 | 21 |
| NTNU, Department of Structural Engineering | 56 | 40 | 33 | 35 |
| OsloMet, Department of Built Environment | 50 | 41 |  | 0 |
| OsloMet, Department of Computer Science | 48 | 47 | 33 | 8 |
| OsloMet, Department of Mechanical, Electronic and Chemical Engineering | 46 | 48 | 31 | 0 |
| UIA, Department of Information Systems | 51 | 48 | 45 | 8 |
| UIA, Faculty of Engineering and Science | 57 | 46 | 37 | 42 |
| UIB, Deparment of Mathematics | 52 | 49 | 35 | 9 |
| UIB, Department of Informatics | 54 | 41 | 35 | 28 |
| UIB, Department of Physics and Technology | 56 | 48 | 36 | 30 |
| UIO, Department of Informatics | 57 | 44 | 38 | 30 |
| UIO, Department of Mathematics | 54 | 42 | 34 | 27 |
| UIS, Department of Electrical Engineering and Computer Science | 52 | 43 | 36 | 10 |
| UIS, Department of Mathematics and Physics | 49 | 40 | 34 | 20 |
| UIS, Department of Petroleum Engineering | 55 | 46 | 39 | 43 |
| UIS, Dept. of Mechanical and Structural Engineering and Materials Science | 51 | 42 | 48 | 0 |
| UIT, Department of Automation and Process Engineering |  | 42 |  | 0 |
| UIT, Department of Building, Energy and Material Technology | 59 | 51 | 35 | 33 |
| UIT, Department of Computer Science | 56 | 43 | 31 | 20 |
| UIT, Department of Computer Science and Computational Engineering | 61 | 41 |  | 57 |
| UIT, Department of Electrical Engineering | 50 | 42 | 38 | 0 |
| UIT, Department of Industrial Technology | 47 | 47 | 47 | 0 |
| UIT, Department of Mathematics and Statistics | 59 | 50 | 33 | 57 |
| UIT, Department of Physics and Technology | 55 | 39 | 34 | 27 |
| UIT, Department of Technology and Safety | 50 | 45 | 47 | 14 |
| USN, Department of Business and IT | 55 | 46 |  | 33 |
| USN, Department of Microsystems | 54 | 46 | 36 | 9 |
| USN, Department of Process, Energy and Environmental Technology | 57 | 44 | 37 | 40 |
| USN, Department of Science and Industry systems | 55 | 49 | 36 | 36 |
| USN, Department of electrical engineering, IT and cybernetics | 57 | 42 |  | 50 |
| Western Norway University of Applied Sciences, Faculty of Engineering and Science | 52 | 46 | 37 | 17 |
| Østfold University college, Faculty of Computer Science, Engineering and Economics | 55 | 47 |  | 30 |
| Total | 54 | 45 | 37 | 26 |

[^4]
## 4. R\&D personnel in the institute sector

In this evaluation, ten research institutes from the Norwegian institute sector are included in the analysis. These are:

- Institute for Energy Technology
- NORCE Technology
- Norwegian Computing Center
- SIMULA Research Laboratory
- SINTEF Community
- SINTEF Digital
- SINTEF Energy
- SINTEF Industry
- SINTEF Manufacturing
- SINTEF Ocean (technology section)

Two of these institutes, SINTEF Digital and SINTEF Industry were also included in the evaluation of natural sciences (Statistics for use in the evaluation of natural sciences in Norway (Report 2023/15) (ssb.no)).

In the following part of this report, the personnel statistics of these research institutes will be presented aggregated for the group of institutes (Table 4.1-4.3) and for each institute separately (Table 4.4-4.8). The presented indicators are the same as for the higher education sector, except that for the research institutes we will present the researchers in one group only, as the research institutes do not have one standard classification of positions.

### 4.1. R\&D personnel and gender balance in the institute sector

In 2021, almost 1900 researchers were employed at the ten research institutes included in this evaluation. Since 2013, the population had a growth from about 1500 researchers or 25 per cent. Most of the growth can however be linked to three institutes: SINTEF Industry, SINTEF Digital and SIMULA Research Laboratory, with a total increase of about 250 researchers. However, Institute for Energy Technology and Norce Technology had both a decrease of researchers in the same period.

The size of the research institutes varies quite a bit, from 52 researchers at SINTEF Manufacturing to SINTEF Industry who has almost 400 researchers which is by far the largest institute. The average number of researchers was 345 in 2021.

With 29 per cent women, among the institutes in this evaluation, the gender balance is lower than the sector average of 46 per cent. However, the share of female researchers has increased with three percentage points since 2013. The share of women varies between the institutes, from 20 per cent at Norce Technology to 44 per cent at SINTEF Community.

Table 4.1 Number of researchers and share of female researchers in 2013, 2017 and 2021. Research institutes included in the evaluation

|  | Number of researchers |  |  |  | Share of female researchers |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Institute for Energy Technology | 208 | 234 | 197 | 29 | 36 | 26 |
| NORCE Technology | 197 | 196 | 174 | 22 | 21 | 20 |
| Norwegian Computing Center | 58 | 65 | 78 | 36 | 28 | 31 |
| SIMULA Research Laboratory | 66 | 96 | 138 | 24 | 24 | 27 |
| SINTEF Community | 116 | 112 | 176 | 44 | 41 | 44 |
| SINTEF Digital | 235 | 216 | 311 | 18 | 18 | 25 |
| SINTEF Energy | 178 | 169 | 213 | 21 | 23 | 26 |
| SINTEF Industry | 294 | 278 | 395 | 30 | 32 | 32 |
| SINTEF Manufacturing | 29 | 32 | 52 | 14 | 25 | 25 |
| SINTEF Ocean | 117 | 133 | 142 | 15 | 23 | 25 |
| Total | 1,498 | 1,531 | 1,876 | 26 | 27 | 29 |

Source: Statistics Norway
Tabel 4.2 is showing the share of researchers with a PhD-degree and the share of researchers with a foreign PhD-degree. As expected, most of the researchers are PhD-holders as 68 per cent of them have a PhD-degree. This is an increase since 2013, when just more than half of them, 56 per cent, had a PhD-degree. The PhD-density varies quite a bit. At SINTEF Community, SINTEF Manufacturing about half of the researchers are PhD-holders while around 80 per cent had a PhD-degree at Norce Technology and SINTEF Industry.

As mentioned previously, a foreign PhD-degree is an indicator of a foreign citizenship. In 2021, 20 per cent, or one of five researchers had a foreign PhD-degree, and this share increased from 15 per cent in 2013. The highest share of foreign PhD-degrees was found at SIMULA Research Laboratory with 32 per cent. At SINTEF Industry and Institute for Energy Technology, one of four had a foreign PhD-degree as well.

Table 4.2 Share of researchers with PhD-degree and share of researchers with foreign PhD-degree. 2013, 2017 and 2021. Research institutes included in the evaluation

| Institute | Researchers with PhD-degree |  |  | Researchers with foreign PhD-degree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Institute for Energy Technology | 47 | 49 | 59 | 20 | 24 | 26 |
| NORCE Technology | 55 | 64 | 78 | 15 | 14 | 19 |
| Norwegian Computing Center | 62 | 72 | 73 | 10 | 9 | 10 |
| SIMULA Research Laboratory | 55 | 65 | 66 | 24 | 33 | 32 |
| SINTEF Community | 38 | 44 | 50 | 5 | 6 | 9 |
| SINTEF Digital | 54 | 60 | 61 | 12 | 18 | 21 |
| SINTEF Energy | 56 | 63 | 74 | 11 | 10 | 14 |
| SINTEF Industry | 73 | 77 | 80 | 21 | 22 | 25 |
| SINTEF Manufacturing | 48 | 53 | 54 | 10 | 6 | 6 |
| SINTEF Ocean | 50 | 60 | 63 | 13 | 14 | 13 |
| Total | 56 | 62 | 68 | 15 | 17 | 20 |

Source: Statistics Norway
The average age of the researchers is shown in Table 4.3, which was 43 years old. The average age was quite stable over time, at 43 years in 2013 and 44 years in 2017. Between the institutes, the average age is also quite similar, except at SIMULA Research Laboratory where the researchers are much younger than the rest of the institutes, with an average age of 36 years.

Table 4.3 also contains the share of researchers aged 62 years and older. As most of the researchers are younger, only a small proportion, 7 per cent, of the researchers are 62 years old and older. At a couple of institutes, SINTEF Community and SINTEF Manufacturing, 11 and 12 per cent of their researchers are 62 years old or older.

Table 4.3 Average age of researchers and share of researchers that are 62 years and older. 2013, 2017 and 2021. Research institutes included in the evaluation

| Instiute | Average age of researchers |  |  | Share of researchers 62 years and older |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Institute for Energy Technology | 46 | 45 | 44 | 10 | 8 | 7 |
| NORCE Technology | 41 | 43 | 45 | 5 | 7 | 6 |
| Norwegian Computing Center | 42 | 43 | 43 |  | 2 | 6 |
| SIMULA Research Laboratory | 34 | 35 | 36 |  |  |  |
| SINTEF Community | 46 | 46 | 45 | 9 | 12 | 11 |
| SINTEF Digital | 42 | 44 | 43 | 6 | 7 | 7 |
| SINTEF Energy | 41 | 42 | 41 | 4 | 7 | 5 |
| SINTEF Industry | 43 | 45 | 45 | 5 | 8 | 9 |
| SINTEF Manufacturing | 44 | 47 | 43 | 3 | 9 | 12 |
| SINTEF Ocean | 44 | 44 | 45 | 13 | 7 | 9 |
| Total | 43 | 44 | 43 | 6 | 7 | 7 |

Source: Statistics Norway

### 4.2. R\&D personnel data in the institutes sector per institute

In this chapter, more detailed statistics for each institute are provided in the following tables. These tables are not further commented upon.

Table 4.4 Personnel statistics for Institute for Energy Technology 2013, 2017 and 2021

| Indicators | 2013 | 2017 | 2021 |
| :--- | ---: | ---: | ---: |
| Total researchers | 208 | 234 | 197 |
| Female researchers | 60 | 52 |  |
| Male researchers | 148 | 150 | 145 |
| Share of female researchers | 29 | 36 | 26 |
| Share of researchers with phd-degree | 47 | 49 | 59 |
| Share of female researchers with phd-degree | 35 | 36 | 54 |
| Share of male researchers with phd-degree | 52 | 57 | 61 |
| Share of researchers with foreign phd-degree | 20 | 24 | 26 |
| Average age, all researchers | 46 | 45 | 44 |
| Average age, female researchers | 42 | 43 | 42 |
| Average age, male researchers | 47 | 46 | 8 |
| Share of researchers 62 years or older | 10 | 45 |  |

Source: Statistics Norway
Table 4.5 Personnel statistics for NORCE Technology, 2013, 2017 and 2021

| Indicators | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: |
| Total researchers | 197 | 196 | 174 |
| Female researchers | 44 | 41 | 35 |
| Male researchers | 153 | 155 | 139 |
| Share of female researchers | 22 | 21 | 20 |
| Share of researchers with phd-degree | 55 | 64 | 78 |
| Share of female researchers with phd-degree | 55 | 68 | 71 |
| Share of male researchers with phd-degree | 55 | 63 | 80 |
| Share of researchers with foreign phd-degree | 15 | 14 | 19 |
| Average age, all researchers | 41 | 43 | 45 |
| Average age, female researchers | 38 | 41 | 43 |
| Average age, male researchers | 43 | 44 | 46 |
| Share of researchers 62 years or older | 5 | 7 | 6 |

[^5]Table 4.6 Personnel statistics for Norwegian Computing Center, 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :--- | ---: | ---: | ---: |
| Total researchers | 58 | 78 |  |
| Female researchers | 21 | 18 | 24 |
| Male researchers | 37 | 47 | 54 |
| Share of female researchers | 36 | 28 | 31 |
| Share of researchers with phd-degree | 62 | 72 | 73 |
| Share of female researchers with phd-degree | 57 | 83 | 79 |
| Share of male researchers with phd-degree | 65 | 68 | 70 |
| Share of researchers with foreign phd-degree | 10 | 9 | 10 |
| Average age, all researchers | 42 | 43 | 43 |
| Average age, female researchers | 38 | 43 | 41 |
| Average age, male researchers | 44 | 43 | 43 |
| Share of researchers 62 years or older | 0 | 6 | 4 |

Source: Statistics Norway

Table 4.7 Personnel statistics for SIMULA Research Laboratory 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: |
| Total researchers | 66 | 96 | 138 |
| Female researchers | 16 | 23 | 37 |
| Male researchers | 50 | 73 | 101 |
| Share of female researchers | 24 | 24 | 27 |
| Share of researchers with phd-degree | 55 | 65 | 66 |
| Share of female researchers with phd-degree | 38 | 61 | 59 |
| Share of male researchers with phd-degree | 60 | 66 | 68 |
| Share of researchers with foreign phd-degree | 24 | 33 | 32 |
| Average age, all researchers | 34 | 35 | 36 |
| Average age, female researchers | 29 | 31 | 32 |
| Average age, male researchers | 35 | 37 | 38 |
| Share of researchers 62 years or older | 0 | 0 | 0 |

Source: Statistics Norway

Table 4.8 Personnel statistics for SINTEF Community 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :--- | ---: | ---: | ---: |
| Total researchers | 116 | 112 | 176 |
| Female researchers | 51 | 46 | 78 |
| Male researchers | 65 | 66 | 98 |
| Share of female researchers | 44 | 41 | 44 |
| Share of researchers with phd-degree | 38 | 44 | 50 |
| Share of female researchers with phd-degree | 37 | 46 | 50 |
| Share of male researchers with phd-degree | 38 | 42 | 50 |
| Share of researchers with foreign phd-degree | 5 | 6 | 9 |
| Average age, all researchers | 46 | 46 | 45 |
| Average age, female researchers | 40 | 42 |  |
| Average age, male researchers | 50 | 48 | 12 |
| Share of researchers 62 years or older | 9 | 46 |  |

[^6]Table $4.9 \quad$ Personnel statistics for SINTEF Digital 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: |
| Total researchers | 235 | 216 | 311 |
| Female researchers | 43 | 38 | 79 |
| Male researchers | 192 | 178 | 232 |
| Share of female researchers | 18 | 18 | 25 |
| Share of researchers with phd-degree | 54 | 60 | 61 |
| Share of female researchers with phd-degree | 49 | 55 | 53 |
| Share of male researchers with phd-degree | 56 | 61 | 63 |
| Share of researchers with foreign phd-degree | 12 | 18 | 21 |
| Average age, all researchers | 42 | 44 | 43 |
| Average age, female researchers | 40 | 42 | 40 |
| Average age, male researchers | 43 | 44 | 44 |
| Share of researchers 62 years or older | 6 | 7 | 7 |

Source: Statistics Norway

Table 4.10 Personnel statistics for SINTEF Energy 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :--- | ---: | ---: | ---: |
| Total researchers | 178 | 169 | 213 |
| Female researchers | 38 | 39 | 140 |
| Male researchers | 21 | 130 | 23 |
| Share of female researchers | 56 | 26 |  |
| Share of researchers with phd-degree | 53 | 63 | 74 |
| Share of female researchers with phd-degree | 56 | 66 | 75 |
| Share of male researchers with phd-degree | 11 | 10 | 74 |
| Share of researchers with foreign phd-degree | 41 | 42 | 14 |
| Average age, all researchers | 36 | 36 | 41 |
| Average age, female researchers | 42 | 48 |  |
| Average age, male researchers | 4 | 44 | 7 |
| Share of researchers 62 years or older |  | 42 |  |

Source: Statistics Norway

Table 4.11 Personnel statistics for SINTEF Industri 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: |
| Total researchers | 294 | 278 | 395 |
| Female researchers | 87 | 90 | 126 |
| Male researchers | 207 | 188 | 269 |
| Share of female researchers | 30 | 32 | 32 |
| Share of researchers with phd-degree | 73 | 77 | 80 |
| Share of female researchers with phd-degree | 66 | 69 | 69 |
| Share of male researchers with phd-degree | 77 | 81 | 85 |
| Share of researchers with foreign phd-degree | 21 | 22 | 25 |
| Average age, all researchers | 43 | 45 | 45 |
| Average age, female researchers | 40 | 42 | 41 |
| Average age, male researchers | 45 | 46 | 46 |
| Share of researchers 62 years or older | 5 | 8 | 9 |

Source: Statistics Norway

Table 4.12 Personnel statistics for SINTEF Manufacturing 2013, 2017 and 2021.

| Indicators | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: |
| Total researchers | 29 | 32 | 52 |
| Female researchers | 4 | 8 | 13 |
| Male researchers | 25 | 24 | 39 |
| Share of female researchers | 14 | 25 | 25 |
| Share of researchers with phd-degree | 48 | 53 | 54 |
| Share of female researchers with phd-degree | 50 | 63 | 54 |
| Share of male researchers with phd-degree | 48 | 50 | 54 |
| Share of researchers with foreign phd-degree | 10 | 6 | 6 |
| Average age, all researchers | 44 | 47 | 43 |
| Average age, female researchers | 43 | 47 | 41 |
| Average age, male researchers | 44 | 47 | 43 |
| Share of researchers 62 years or older | 3 | 9 | 12 |

Table 4.13 Personnel statistics for SINTEF Ocean 2013, 2017 and 2021

| Indicators | 2013 | 2017 | 2021 |
| :---: | :---: | :---: | :---: |
| Total researchers | 117 | 133 | 142 |
| Female researchers | 18 | 31 | 36 |
| Male researchers | 99 | 102 | 106 |
| Share of female researchers | 15 | 23 | 25 |
| Share of researchers with phd-degree | 50 | 60 | 63 |
| Share of female researchers with phd-degree | 50 | 71 | 69 |
| Share of male researchers with phd-degree | 49 | 57 | 60 |
| Share of researchers with foreign phd-degree | 13 | 14 | 13 |
| Average age, all researchers | 44 | 44 | 45 |
| Average age, female researchers | 39 | 42 | 42 |
| Average age, male researchers | 44 | 45 | 46 |
| Share of researchers 62 years or older | 13 | 7 | 9 |

## 5. R\&D expenditure in the higher education and institute sectors 2021

R\&D expenditure are used to measure the input to the research system. In 2021, current R\&D expenditure in the higher education sector and institutes sector amounted to about 39.4 billion NOK. About 24.3 billion NOK was used in the higher education sector and 15.1 billion NOK in the institute sector. Total R\&D expenditure in engineering and technology amounted to 8,9 billion NOK and natural sciences amounted to 6.5 billion NOK in 2021. Adding these major fields together, the total current R\&D expenditure amounted to almost 15.5 billion NOK in 2021.

Figure 5.1 Current expenditure on R\&D in the institute and higher education sector by fields of R\&D in 2021. Mill. NOK


Source: Statistics Norway. Table 13513 and Table 13516

### 5.1. Total R\&D expenditures in academia

Figure 5.2 shows the current expenditure on R\&D by fields of R\&D for the higher education sector and the institute sector together in the period 2001 to 2021, in fixed prices, which is adjusted for inflation. Medical and health sciences is by far the largest field, and had the strongest growth, with almost 170 per cent from 2001 to 2021 . Total growth for all fields in the same period was about 90 per cent. Engineering and technology (the dark blue line) was the second largest field, with a growth in R\&D expenditure of 82 per cent. Natural sciences (light blue line) were the fourth largest field in 2021 and had a modest growth of about 50 per cent since 2001, which was the same as agricultural sciences and humanities.

Figure 5.2 Current expenditure on R\&D in the institute and higher education sector by fields of R\&D in 2001-2021. Fixed 2015-prices. Mill. NOK


Source: Statistics Norway. Table 13513

Figure 5.3 illustrates the distribution of each R\&D field as a percentage of the total over the 20-year period. Engineering and technology accounted for about 23 per cent of the total both in 2001 and in 2023, never dipping below 20 per cent. Natural sciences constituted 17 per cent in 2021, gradually declining from 21 per cent in 2001. Medical and health sciences were the field of R\&D that increased the most, rising from 18 per cent in 2001 to 25 per cent in 2021.

Figure 5.3 Current expenditure on R\&D in the institute and higher education sector by fields of R\&D in 2001-2021. Share of total R\&D


[^7]
### 5.2. R\&D expenditures for the evaluated units in the higher education sector

In this chapter we look closer at the evaluated units in the higher education sector. The evaluated units performed R\&D for a total of 3.7 billion NOK in 2021. In the following figures, the R\&D expenditures is presented using the specific field classification. See further explanation about field classification in section 2.4. A vast majority of R\&D was carried out within engineering and technology and natural sciences, a total of 57 and 35 per cent respectively. The last three percentages, which constitute almost 100 million NOK were within other fields. Figure 5.4 is showing the current R\&D expenditure for the higher education units by specific field classification.

The largest subfield among the units was information and communication sciences with R\&D expenditures of about 541 million NOK. Then following, the very closely related subfield informatics, which amounted to 454 million NOK. Together these two subfields constitute almost 1 billion NOK. Mathematics was the third largest field, accounting for about 350 million NOK. Then follows a wide range of other fields, mainly within technology and natural sciences.

Figure 5.4 Current R\&D expenditure among HE units by specific field classification. Mill NOK. 2021


Source: Statistics Norway
Figure 5.5 shows the R\&D expenditure for the units included in the evaluation by selected fields, compared to the total current expenditure of the same fields in the higher education sector in 2021. The figures are based on responses from the R\&D survey by specific field classification, meaning that the R\&D performed unit states the which fields of R\&D they have carried out and how much in percentage of their total R\&D. The figure shows how much the units in the evaluation cover the various fields compared to how much the fields make up overall.

For information and communication technology, the unit are covering about 540 million NOK, while the total R\&D within this field constitutes 634 million NOK, i.e. around 86 per cent. When it comes to
informatics, the units R\&D expenditure amounted to 492 million NOK, while the total expenditure within this field was 532 million NOK, which means that 92 per cent of the informatics field was covered by the units. Mathematics is not that well covered by the units, while about 60 per cent were covered ( 258 of 438 million NOK). The evaluated units cover about 2.1 billion NOK R\&D within engineering and technology. However, the total current expenditure on R\&D within this field of R\&D in the higher education sector constitutes about 3.5 billion NOK. Hence, some technology fields are not covered by this evaluation. The fields which are not covered by this evaluation, are mainly biotechnology, nano technology and chemical engineering. These fields were covered by other evaluations.

Figure 5.5 Current R\&D expenditure within relevant fields in total and among the evaluation units. Specific field classification. Mill. NOK 2021


Source: Statistics Norway

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## Appendix A: R\&D Personnel statistics for units in the higher education sector

Table A1.1 UIB, Department of Physics and Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 24 | 24 | 23 | 12 | 12 | 13 |
| Associate professors | 6 | 8 | 11 | 17 | 12 | 18 |
| Researchers and postdocs | 23 | 26 | 31 | 30 | 23 | 23 |
| PhD-students | 34 | 26 | 46 | 32 | 35 | 33 |
| Total | 87 | 84 | 111 | 25 | 23 | 24 |

Source: Statistics Norway

Table A1.2 UIB, Department of Physics and Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phd-degree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 92 | 96 | 100 | 32 | 43 | 35 |
| Associate professors | 83 | 100 | 100 | 20 | 38 | 18 |
| Researchers and postdocs | 83 | 96 | 100 | 42 | 40 | 52 |
| Total | 87 | 97 | 100 | 30 | 40 | 40 |

Source: Statistics Norway

Table A1.3 UIB, Department of Physics and Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 52 | 54 | 56 | 12 | 29 | 30 | 0 |
| Associate professors | 51 | 48 | 48 | 17 | 0 | 9 | 0 |
| Researchers and postdocs | 35 | 34 | 36 | 0 | 0 | 0 | 55 |
| PhD-students | 29 | 29 | 29 | 0 | 0 | 0 | 100 |
| Total | 39 | 39 | 39 | 5 | 8 | 7 | 4 |

Source: Statistics Norway
Table A2.1 UIB, Department of Informatics, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 19 | 19 | 18 | 5 | 11 |  |
| Associate professors | 3 | 3 | 14 | 0 | 33 | 21 |
| Researchers and postdocs | 20 | 32 | 27 | 30 | 22 | 15 |
| PhD-students | 29 | 36 | 44 | 24 | 36 | 27 |
| Total | 71 | 90 | 103 | 20 | 24 | 20 |

Source: Statistics Norway
Table A2.2 UIB, Department of Informatics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 95 | 100 | 100 | 56 | 63 | 83 |
| Associate professors | 67 | 100 | 100 | 0 | 33 | 43 |
| Researchers and postdocs | 80 | 94 | 100 | 56 | 73 | 63 |
| Total | 86 | 96 | 100 | 45 | 65 | 64 |

[^8]Table A2.3 UIB, Department of Informatics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 50 | 53 | 54 | 11 | 16 | 28 | 0 |
| Associate professors | 56 | 51 | 41 | 33 | 0 | 7 | 29 |
| Researchers and postdocs | 34 | 36 | 35 | 0 | 0 | 0 | 85 |
| PhD-students | 29 | 28 | 30 | 0 | 0 | 0 | 100 |
| Total | 37 | 37 | 37 | 4 | 3 | 6 | 4 |

Source: Statistics Norway
Table A3.1 UIB, Department of Mathematics, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 17 | 19 | 22 | 12 | 16 | 14 |
| Associate professors | 12 | 9 | 10 | 17 | 33 | 20 |
| Researchers and postdocs | 5 | 11 | 13 | 0 | 9 | 8 |
| PhD-students | 21 | 25 | 25 | 48 | 32 | 28 |
| Total | 55 | 64 | 70 | 25 | 23 | 19 |

Source: Statistics Norway
Table A3.2 UIB, Department of Mathematics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 94 | 100 | 100 | 38 | 42 | 45 |
| Associate professors | 100 | 100 | 100 | 42 | 56 | 60 |
| Researchers and postdocs | 100 | 100 | 100 | 20 | 45 | 62 |
| Total | 97 | 100 | 100 | 35 | 46 | 53 |

Source: Statistics Norway
Table A3.2 UIB, Department of Mathematics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 50 | 52 | 29 | 11 | 9 | 0 |
| Associate professors | 44 | 45 | 49 | 0 | 0 | 30 | 20 |
| Researchers and postdocs | 35 | 33 | 35 | 0 | 0 | 0 | 62 |
| PhD-students | 28 | 28 | 31 | 0 | 0 | 0 | 100 |
| Total | 40 | 38 | 41 | 9 | 3 | 7 | 7 |

Source: Statistics Norway

Table A4.1 UIO, Department of Informatics, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 36 | 38 | 40 | 11 | 13 | 3 |
| Associate professors | 16 | 17 | 27 | 38 | 35 | 33 |
| Researchers and postdocs | 30 | 40 | 50 | 23 | 32 | 34 |
| PhD-students | 66 | 79 | 102 | 24 | 33 | 39 |
| Total | 148 | 174 | 219 | 22 | 29 | 33 |

Source: Statistics Norway

Table A4.2 UIO, Department of Informatics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 83 | 89 | 98 | 27 | 38 | 49 |
| Associate professors | 94 | 100 | 100 | 33 | 29 | 33 |
| Researchers and postdocs | 97 | 95 | 88 | 45 | 37 | 55 |
| Total | 90 | 94 | 94 | 32 | 34 | 44 |

Source: Statistics Norway

Table A4.3 UIO, Department of Informatics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 54 | 56 | 57 | 25 | 29 | 30 | 0 |
| Associate professors | 46 | 44 | 44 | 6 | 6 | 4 | 4 |
| Researchers and postdocs | 37 | 38 | 38 | 0 | 0 | 2 | 82 |
| PhD-students | 32 | 31 | 31 | 0 | 0 | 0 | 99 |
| Total | 40 | 39 | 39 | 7 | 7 | 6 | 3 |

Source: Statistics Norway

Table A5.1 UIO, Department of Mathematics, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 38 | 35 | 26 | 11 | 9 | 12 |
| Associate professors | 5 | 8 | 13 | 20 | 25 | 31 |
| Researchers and postdocs | 17 | 29 | 30 | 12 | 24 | 33 |
| PhD-students | 32 | 51 | 45 | 34 | 25 | 22 |
| Total | 92 | 123 | 114 | 20 | 20 | 24 |

Source: Statistics Norway

Table A5.2 UIO, Department of Mathematics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 92 | 91 | 88 | 49 | 41 | 48 |
| Associate professors | 80 | 100 | 92 | 25 | 62 | 67 |
| Researchers and postdocs | 88 | 97 | 97 | 60 | 71 | 66 |
| Total | 90 | 94 | 93 | 45 | 53 | 55 |

Source: Statistics Norway

Table A5.3 UIO, Department of Mathematics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 55 | 56 | 54 | 34 | 31 | 27 | 0 |
| Associate professors | 51 | 39 | 42 | 20 | 0 | 0 | 0 |
| Researchers and postdocs | 34 | 33 | 34 | 6 | 0 | 0 | 90 |
| PhD-students | 29 | 29 | 27 | 0 | 0 | 0 | 100 |
| Total | 42 | 38 | 37 | 16 | 9 | 6 | 0 |

[^9]Table A6.1 UIT, Department of Computer Science, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 3 | 4 | 10 | 0 | 25 | 20 |
| Associate professors | 6 | 6 | 9 | 17 | 0 | 33 |
| Researchers and postdocs | 3 | 2 | 8 | 0 | 0 | 25 |
| PhD-students | 9 | 7 | 22 | 0 | 0 | 9 |
| Total | 21 | 19 | 49 | 5 | 5 | 18 |

Source: Statistics Norway
Table A6.2 UIT, Department of Computer Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 67 | 75 | 90 | 0 | 0 | 33 |
| Associate professors | 100 | 83 | 89 | 33 | 40 | 62 |
| Researchers and postdocs | 67 | 100 | 38 | 0 | 0 | 100 |
| Total | 83 | 83 | 74 | 17 | 17 | 41 |

Source: Statistics Norway

Table A6.3 UIT, Department of Computer Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 54 | 58 | 56 | 0 | 25 | 20 | 0 |
| Associate professors | 44 | 49 | 43 | 0 | 17 | 11 | 0 |
| Researchers and postdocs | 37 | 40 | 31 | 0 | 0 | 0 | 100 |
| PhD-students | 33 | 30 | 31 | 0 | 0 | 0 | 100 |
| Total | 39 | 43 | 38 | 0 | 11 | 6 | 0 |

Source: Statistics Norway
Table A7.1 UIT, Department of Physics and Technology, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 |  |
| Professors | 10 | 11 | 15 | 30 | 36 | 20 |
| Associate professors | 2 | 3 | 8 | 50 | 0 | 25 |
| Researchers and postdocs | 8 | 19 | 37 | 12 | 47 | 30 |
| PhD-students | 21 | 31 | 46 | 29 | 29 | 33 |
| Total | 41 | 64 | 106 | 27 | 34 | 29 |

Source: Statistics Norway

Table A7.2 UIT, Department of Physics and Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 40 | 45 | 40 |
| Associate professors | 100 | 100 | 88 | 0 | 33 | 43 |
| Researchers and postdocs | 88 | 95 | 92 | 71 | 61 | 68 |
| Total | 95 | 97 | 93 | 45 | 52 | 53 |

[^10]Table A7.3 UIT, Department of Physics and Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 52 | 53 | 55 | 20 | 27 | 27 | 0 |
| Associate professors | 38 | 41 | 39 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 40 | 35 | 34 | 0 | 0 | 0 | 73 |
| PhD-students | 30 | 29 | 30 | 0 | 0 | 0 | 100 |
| Total | 38 | 36 | 36 | 5 | 5 | 4 | 7 |

Source: Statistics Norway

Table A8.1 UIT, Department of Mathematics and Statistics, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 6 | 5 | 7 | 0 | 0 | 0 |
| Associate professors | 8 | 8 | 10 | 25 | 25 | 30 |
| Researchers and postdocs | 3 | 3 | 4 | 0 | 0 | 50 |
| PhD-students | 5 | 8 | 16 | 60 | 38 | 31 |
| Total | 22 | 24 | 37 | 23 | 21 | 27 |

Source: Statistics Norway
able A8.2 UIT, Department of Mathematics and Statistics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 83 | 100 | 100 | 40 | 60 | 57 |
| Associate professors | 88 | 75 | 80 | 29 | 17 | 38 |
| Researchers and postdocs | 100 | 100 | 50 | 67 | 67 | 100 |
| Total | 88 | 88 | 81 | 35 | 38 | 43 |

Source: Statistics Norway
Table A8.3 UIT, Department of Mathematics and Statistics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 58 | 60 | 59 | 33 | 60 | 57 | 14 |
| Associate professors | 48 | 50 | 50 | 0 | 12 | 30 | 0 |
| Researchers and postdocs | 42 | 33 | 33 | 0 | 0 | 0 | 100 |
| PhD-students | 29 | 28 | 28 | 0 | 0 | 0 | 100 |
| Total | 45 | 43 | 41 | 9 | 17 | 19 | 3 |

Source: Statistics Norway

Table A9.1 UIT, Department of Technology and Safety, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 3 | 6 | 7 | 0 | 0 | 14 |
| Associate professors | 10 | 8 | 13 | 30 | 50 | 46 |
| Researchers and postdocs | 1 | 2 | 1 | 100 | 0 | 0 |
| PhD-students | 1 | 7 | 14 | 0 | 14 | 14 |
| Total | 15 | 23 | 35 | 27 | 22 | 26 |

Source: Statistics Norway

Table A9.2 UIT, Department of Technology and Safety, PhD-statistics

|  | Share of researchers with phd-degree |  | Share of researchers with foreign phd- |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| degree |  |  |  |  |

Source: Statistics Norway
Table A9.3 UIT, Department of Technology and Safety, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 45 | 51 | 50 | 0 | 17 | 14 | 0 |
| Associate professors | 45 | 42 | 45 | 10 | 0 | 0 | 8 |
| Researchers and postdocs | 35 | 32 | 47 | 0 | 0 | 0 | 0 |
| PhD-students | 28 | 34 | 32 | 0 | 0 | 0 | 100 |
| Total | 43 | 41 | 41 | 7 | 4 | 3 | 3 |

Source: Statistics Norway

Table A10.1 UIT, Department of Electrical Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 3 | 2 | 0 | 33 | 50 |
| Associate professors | 0 | 4 | 7 | 0 | 25 | 14 |
| Researchers and postdocs | 0 | 0 | 1 | 0 | 0 | 0 |
| PhD-students | 0 | 2 | 6 | 0 | 0 | 17 |
| Total | 0 | 9 | 16 | 0 | 22 | 19 |

Source: Statistics Norway

Table A10.2 UIT, Department of Electrical Engineering, PhD-statistics
Share of researchers with foreign phd-

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 100 | 100 | 0 | 0 | 0 |
| Associate professors | 0 | 100 | 100 | 0 | 50 | 57 |
| Researchers and postdocs | 0 | 0 | 100 | 0 | 0 | 100 |
| Total | 0 | 100 | 100 | 0 | 29 | 50 |

Source: Statistics Norway

Table A10.3 UIT, Department of Electrical Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 0 | 50 | 50 | 0 | 0 | 0 | 0 |
| Associate professors | 0 | 42 | 42 | 0 | 0 | 14 | 14 |
| Researchers and postdocs | 0 | 0 | 38 | 0 | 0 | 0 | 100 |
| PhD-students | 0 | 30 | 33 | 0 | 0 | 0 | 100 |
| Total | 0 | 42 | 39 | 0 | 0 | 6 | 0 |

[^11]Table A11.1 UIT, Department of Computer Science and Computational Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 10 | 7 | 0 | 10 | 14 |
| Associate professors | 0 | 4 | 9 | 0 | 25 | 22 |
| Researchers and postdocs |  |  |  |  |  |  |
| PhD-students | 0 | 5 | 7 | 0 | 60 | 29 |
| Total | 0 | 19 | 23 | 0 | 26 | 22 |

Source: Statistics Norway

Table A11.2 UIT, Department of Computer Science and Computational Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 100 | 100 | 0 | 50 | 29 |
| Associate professors | 0 | 100 | 100 | 0 | 75 | 11 |
| Researchers and postdocs |  |  |  |  |  |  |
| Total | 0 | 100 | 100 | 0 | 57 | 19 |

Source: Statistics Norway
Table A11.3 UIT, Department of Computer Science and Computational Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 0 | 58 | 61 | 0 | 30 | 57 | 14 |
| Associate professors | 0 | 39 | 41 | 0 | 0 | 0 | 0 |
| PhD-students | 0 | 28 | 32 | 0 | 0 | 0 | 100 |
| Total | 0 | 46 | 45 | 0 | 16 | 17 | 13 |

Source: Statistics Norway
Table A12.1 UIT, Department of Automation and Process Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors |  |  |  |  |  |  |
| Associate professors | 0 | 6 | 9 | 0 | 17 | 22 |
| Researchers and postdocs | 0 | 1 | 0 | 0 | 0 | 0 |
| PhD-students | 0 | 2 | 3 | 0 | 50 | 0 |
| Total | 0 | 9 | 12 | 0 | 22 | 17 |

Source: Statistics Norway
Table A12.2 UIT, Department of Automation and Process Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors |  |  |  |  |  |  |
| Associate professors | 0 | 100 | 100 | 0 | 17 | 11 |
| Researchers and postdocs | 0 | 100 | 0 | 0 | 0 | 0 |
| Total | 0 | 100 | 100 | 0 | 14 | 11 |

[^12]Table A12.3 UIT, Department of Automation and Process Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Associate professors | 0 | 39 | 42 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 0 | 32 | 0 | 0 | 0 | 0 | 0 |
| PhD-students | 0 | 33 | 36 | 0 | 0 | 0 | 100 |
| Total | 0 | 37 | 41 | 0 | 0 | 0 | 0 |

Source: Statistics Norway
Table A13.1 UIT, Department of Building, Energy and Material Technology, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | :---: | :---: | :---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 3 | 3 | 0 | 33 | 33 |
| Associate professors | 0 | 5 | 8 | 0 | 20 | 12 |
| Researchers and postdocs | 0 | 1 | 3 | 0 | 0 | 67 |
| PhD-students | 0 | 2 | 8 | 0 | 100 | 62 |
| Total | 0 | 11 | 22 | 0 | 36 | 41 |

Source: Statistics Norway

Table A13.2 UIT, Department of Building, Energy and Material Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 100 | 100 | 0 | 67 | 67 |
| Associate professors | 0 | 100 | 100 | 0 | 20 | 12 |
| Researchers and postdocs | 0 | 0 | 33 | 0 | 0 | 0 |
| Total | 0 | 89 | 86 | 0 | 33 | 21 |

Source: Statistics Norway
Table A13.3 UIT, Department of Building, Energy and Material Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 0 | 55 | 59 | 0 | 0 | 33 | 0 |
| Associate professors | 0 | 57 | 51 | 0 | 20 | 0 | 0 |
| Researchers and postdocs | 0 | 50 | 35 | 0 | 0 | 0 | 67 |
| PhD-students | 0 | 30 | 33 | 0 | 0 | 0 | 100 |
| Total | 0 | 51 | 43 | 0 | 9 | 5 | 0 |

Source: Statistics Norway

Table A14.1 UIT, Department of Industrial Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 1 | 2 | 0 | 0 | 50 |
| Associate professors | 0 | 5 | 5 | 0 | 20 | 20 |
| Researchers and postdocs | 0 | 0 | 1 | 0 | 0 | 100 |
| PhD-students | 0 | 3 | 8 | 0 | 0 | 25 |
| Total | 0 | 9 | 16 | 0 | 11 | 31 |

Source: Statistics Norway

Table A14.2 UIT, Department of Industrial Technology, PhD-statistics

|  |  |  |  | Share of researchers with foreign phd- |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| degree |  |  |  |  |

Source: Statistics Norway
Table A14.3 UIT, Department of Industrial Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 0 | 37 | 47 | 0 | 0 | 0 | 0 |
| Associate professors | 0 | 45.4 | 46.6 | 0 | 0 | 20 | 0 |
| Researchers and postdocs | 0 | 0 | 47 | 0 | 0 | 0 | 100 |
| PhD-students | 0 | 32.3 | 31 | 0 | 0 | 0 | 100 |
| Total | 0 | 40.1 | 38.9 | 0 | 0 | 6 | 0 |

Source: Statistics Norway

Table A15.1 NMBU, Faculty of Science and Technology, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | :---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 24 | 19 | 25 | 4 | 11 | 20 |
| Associate professors | 27 | 31 | 40 | 19 | 26 | 25 |
| Researchers and postdocs | 14 | 15 | 33 | 36 | 47 | 36 |
| PhD-students | 22 | 26 | 47 | 45 | 38 | 40 |
| Total | 87 | 91 | 145 | 24 | 30 | 32 |

Source: Statistics Norway

Table A15.2 NMBU, Faculty of Science and Technology, PhD-statistics
Share of researchers with foreign phd-

|  | Share of researchers with phd-degree |  |  | degree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 75 | 95 | 100 | 6 | 17 | 28 |
| Associate professors | 78 | 87 | 83 | 10 | 22 | 33 |
| Researchers and postdocs | 86 | 87 | 76 | 50 | 54 | 48 |
| Total | 78 | 89 | 85 | 14 | 25 | 31 |

Source: Statistics Norway

Table A15.3 NMBU, Faculty of Science and Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 57 | 55 | 56 | 42 | 32 | 36 | 4 |
| Associate professors | 51 | 51 | 47 | 11 | 6 | 15 | 0 |
| Researchers and postdocs | 41 | 40 | 37 | 14 | 7 | 0 | 82 |
| PhD-students | 30 | 31 | 31 | 0 | 0 | 0 | 100 |
| Total | 46 | 44 | 41 | 17 | 10 | 10 | 8 |

[^13]Table A16.1 UIS, Department of Mathematics and Physics, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 15 | 18 | 10 | 13 | 6 | 10 |
| Associate professors | 13 | 12 | 12 | 8 | 33 | 17 |
| Researchers and postdocs | 10 | 12 | 4 | 60 | 17 | 25 |
| PhD-students | 19 | 32 | 15 | 32 | 50 | 27 |
| Total | 57 | 74 | 41 | 26 | 31 | 20 |

Source: Statistics Norway
Table A16.2 UIS, Department of Mathematics and Physics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 53 | 44 | 60 |
| Associate professors | 85 | 100 | 92 | 27 | 58 | 91 |
| Researchers and postdocs | 90 | 92 | 100 | 44 | 73 | 75 |
| Total | 92 | 98 | 96 | 39 | 55 | 73 |

Source: Statistics Norway

Table A16.3 UIS, Department of Mathematics and Physics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 54 | 55 | 49 | 20 | 39 | 20 | 0 |
| Associate professors | 49 | 42 | 40 | 23 | 0 | 0 | 8 |
| Researchers and postdocs | 35 | 35 | 34 | 0 | 0 | 0 | 100 |
| PhD-students | 29 | 30 | 29 | 0 | 0 | 0 | 100 |
| Total | 41 | 39 | 38 | 11 | 9 | 5 | 5 |

Source: Statistics Norway
Table A17.1 UIS, Department of Electrical Engineering and Computer Science, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 5 | 9 | 10 | 20 | 11 | 10 |
| Associate professors | 9 | 7 | 9 | 0 | 0 | 22 |
| Researchers and postdocs | 2 | 8 | 4 | 0 | 38 | 0 |
| PhD-students | 10 | 13 | 25 | 10 | 15 | 24 |
| Total | 26 | 37 | 48 | 8 | 16 | 19 |
| Source Statistics Norway |  |  |  |  |  |  |

Source: Statistics Norway

Table A17.2 UIS, Department of Electrical Engineering and Computer Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 0 | 11 | 10 |
| Associate professors | 78 | 86 | 89 | 14 | 0 | 50 |
| Researchers and postdocs | 100 | 63 | 100 | 0 | 40 | 25 |
| Total | 88 | 83 | 96 | 6 | 12 | 26 |

Source: Statistics Norway

Table A17.3 UIS, Department of Electrical Engineering and Computer Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 48 | 49 | 52 | 0 | 0 | 10 | 0 |
| Associate professors | 50 | 51 | 43 | 33 | 29 | 11 | 0 |
| Researchers and postdocs | 35 | 34 | 36 | 0 | 0 | 0 | 50 |
| PhD-students | 29 | 30 | 30 | 0 | 0 | 0 | 100 |
| Total | 40 | 40 | 38 | 12 | 5 | 4 | 10 |

Source: Statistics Norway
Table A18.1 UIS, Dept. of Mechanical and Structural Engineering and Materials Science, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 6 | 8 | 9 | 17 | 12 | 11 |
| Associate professors | 7 | 9 | 9 | 29 | 44 | 44 |
| Researchers and postdocs | 0 | 7 | 3 | 0 | 29 | 0 |
| PhD-students | 9 | 10 | 18 | 44 | 30 | 17 |
| Total | 22 | 34 | 39 | 32 | 29 | 21 |

Source: Statistics Norway
Table A18.2 UIS, Dept. of Mechanical and Structural Engineering and Materials Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phd- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | egree |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 89 | 17 | 12 | 12 |
| Associate professors | 86 | 78 | 100 | 17 | 29 | 33 |
| Researchers and postdocs | 0 | 57 | 67 | 0 | 50 | 100 |
| Total | 92 | 79 | 90 | 15 | 21 | 29 |

Source: Statistics Norway
Table A18.3 UIS, Dept. of Mechanical and Structural Engineering and Materials Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 53 | 51 | 17 | 12 | 0 | 11 |
| Associate professors | 44 | 47 | 42 | 0 | 11 | 11 | 11 |
| Researchers and postdocs | 0 | 31 | 48 | 0 | 0 | 33 | 100 |
| PhD-students | 30 | 28 | 30 | 0 | 0 | 0 | 100 |
| Total | 41 | 40 | 39 | 5 | 6 | 5 | 13 |

Source: Statistics Norway
Table A19.1 UIS, Department of Petroleum Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 13 | 14 | 7 | 0 | 7 | 14 |
| Associate professors | 12 | 10 | 7 | 17 | 40 | 0 |
| Researchers and postdocs | 5 | 14 | 7 | 20 | 21 | 0 |
| PhD-students | 17 | 39 | 19 | 41 | 28 | 32 |
| Total | 47 | 77 | 40 | 21 | 25 | 18 |

Source: Statistics Norway

Table A19.2 UIS, Department of Petroleum Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 31 | 43 | 43 |
| Associate professors | 83 | 100 | 100 | 40 | 40 | - |
| Researchers and postdocs | 80 | 93 | 100 | 50 | 8 | 29 |
| Total | 90 | 97 | 100 | 33 | 29 | 24 |

Source: Statistics Norway

Table A19.3 UIS, Department of Petroleum Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 56 | 56 | 55 | 38 | 43 | 43 | 0 |
| Associate professors | 53 | 50 | 46 | 33 | 20 | 0 | 0 |
| Researchers and postdocs | 35 | 35 | 39 | 0 | 0 | 0 | 71 |
| PhD-students | 28 | 31 | 30 | 0 | 0 | 0 | 100 |
| Total | 43 | 39 | 39 | 19 | 10 | 8 | 5 |

Source: Statistics Norway

Table A20.1 UIA, Department of Information Systems, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 3 | 6 | 12 | 0 | 0 | 33 |
| Associate professors | 4 | 7 | 8 | 25 | 43 | 25 |
| Researchers and postdocs | 1 | 0 | 2 | 100 | 0 | 0 |
| PhD-students | 5 | 7 | 10 | 40 | 43 | 90 |
| Total | 13 | 20 | 32 | 31 | 30 | 47 |

Source: Statistics Norway
Table A20.2 UIA, Department of Information Systems, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 33 | 33 | 42 |
| Associate professors | 100 | 100 | 88 | 50 | 71 | 29 |
| Researchers and postdocs | 100 | 0 | 50 | 0 | 0 | 0 |
| Total | 100 | 100 | 91 | 38 | 54 | 32 |

Source: Statistics Norway

Table A20.3 UIA, Department of Information Systems, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 52 | 55 | 51 | 0 | 17 | 8 | 0 |
| Associate professors | 52 | 50 | 48 | 25 | 14 | 0 | 12 |
| Researchers and postdocs | 55 | 0 | 45 | 0 | 0 | 0 | 100 |
| PhD-students | 34 | 39 | 37 | 0 | 0 | 0 | 100 |
| Total | 45 | 48 | 46 | 8 | 10 | 3 | 3 |

Source: Statistics Norway

Table A21.1 UIA, Faculty of Engineering and Science, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 30 | 37 | 50 | 13 | 14 | 12 |
| Associate professors | 36 | 50 | 53 | 28 | 28 | 32 |
| Researchers and postdocs | 13 | 25 | 21 | 46 | 36 | 29 |
| PhD-students | 37 | 52 | 82 | 38 | 27 | 24 |
| Total | 116 | 164 | 206 | 29 | 26 | 24 |

Source: Statistics Norway
Table A21.2 UIA, Faculty of Engineering and Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 87 | 97 | 94 | 54 | 67 | 60 |
| Associate professors | 81 | 98 | 100 | 28 | 31 | 34 |
| Researchers and postdocs | 85 | 84 | 95 | 18 | 38 | 55 |
| Total | 84 | 95 | 97 | 30 | 42 | 46 |

Source: Statistics Norway

Table A21.3 UIA, Faculty of Engineering and Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 56 | 57 | 57 | 27 | 32 | 42 | 2 |
| Associate professors | 47 | 46 | 46 | 11 | 10 | 9 | 6 |
| Researchers and postdocs | 38 | 37 | 37 | 0 | 4 | 0 | 81 |
| PhD-students | 32 | 31 | 32 | 0 | 0 | 0 | 100 |
| Total | 44 | 42 | 42 | 10 | 11 | 13 | 11 |

Source: Statistics Norway
Table A22.1 USN, Department of electrical engineering, IT and cybernetics, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 9 | 5 | 6 | 11 | 0 | 0 |
| Associate professors | 14 | 6 | 8 | 14 | 17 | 38 |
| Researchers and postdocs | 1 | 0 | 0 | 100 | 0 | 0 |
| PhD-students | 5 | 12 | 9 | 0 | 42 | 22 |
| Total | 29 | 23 | 23 | 14 | 26 | 22 |

Source: Statistics Norway
Table A22.2 USN, Department of electrical engineering, IT and cybernetics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 78 | 100 | 100 | 43 | 40 | 33 |
| Associate professors | 86 | 100 | 100 | 33 | 0 | 25 |
| Researchers and postdocs | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 79 | 100 | 100 | 29 | 18 | 29 |

Source: Statistics Norway

Table A22.3 USN, Department of electrical engineering, IT and cybernetics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 57 | 60 | 57 | 33 | 40 | 50 | 0 |
| Associate professors | 45 | 46 | 42 | 0 | 0 | 0 | 12 |
| Researchers and postdocs | 52 | 0 | 0 | 0 | 0 | 0 | 0 |
| PhD-students | 31 | 32 | 31 | 0 | 0 | 0 | 100 |
| Total | 47 | 42 | 42 | 10 | 9 | 13 | 0 |

Source: Statistics Norway
Table A23.1 Western Norway University of Applied Sciences, Faculty of Engineering and Science, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 18 | 33 | 36 | 11 | 21 | 14 |
| Associate professors | 50 | 92 | 89 | 32 | 36 | 38 |
| Researchers and postdocs | 5 | 16 | 21 | 100 | 50 | 38 |
| PhD-students | 18 | 40 | 44 | 39 | 30 | 27 |
| Total | 91 | 181 | 190 | 33 | 33 | 31 |

Source: Statistics Norway

Table A23.2 Western Norway University of Applied Sciences, Faculty of Engineering and Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 89 | 94 | 97 | 19 | 29 | 40 |
| Associate professors | 86 | 93 | 96 | 16 | 27 | 25 |
| Researchers and postdocs | 60 | 81 | 57 | 33 | 38 | 42 |
| Total | 85 | 92 | 90 | 15 | 26 | 27 |

Source: Statistics Norway

Table A23.3 Western Norway University of Applied Sciences, Faculty of Engineering and Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 54 | 52 | 17 | 12 | 17 | 0 |
| Associate professors | 48 | 46 | 46 | 10 | 10 | 7 | 13 |
| Researchers and postdocs | 38 | 45 | 37 | 0 | 12 | 5 | 57 |
| PhD-students | 34 | 31 | 32 | 0 | 0 | 0 | 100 |
| Total | 46 | 44 | 43 | 9 | 8 | 7 | 10 |

Source: Statistics Norway
Table A24.1 NTNU, Department of Civil and Environmental Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 30 | 28 | 37 | 3 | 4 | 14 |
| Associate professors | 71 | 20 | 17 | 32 | 40 | 35 |
| Researchers and postdocs | 14 | 30 | 26 | 14 | 23 | 27 |
| PhD-students | 71 | 75 | 74 | 37 | 41 | 31 |
| Total | 186 | 153 | 154 | 28 | 31 | 27 |

[^14]Table A24.2 NTNU, Department of Civil and Environmental Engineering, PhD-statistics
Share of researchers with foreign phd-

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 93 | 100 | 100 | 14 | 21 | 19 |
| Associate professors | 89 | 95 | 88 | 16 | 21 | 53 |
| Researchers and postdocs | 86 | 80 | 92 | 8 | 33 | 38 |
| Total | 90 | 91 | 95 | 13 | 23 | 30 |

Source: Statistics Norway

Table A24.3 NTNU, Department of Civil and Environmental Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 52 | 54 | 23 | 14 | 14 | 0 |
| Associate professors | 48 | 46 | 45 | 15 | 5 | 6 | 0 |
| Researchers and postdocs | 39 | 36 | 38 | 7 | 3 | 4 | 54 |
| PhD-students | 32 | 30 | 31 | 0 | 0 | 0 | 100 |
| Total | 42 | 37 | 39 | 10 | 4 | 5 | 10 |

Source: Statistics Norway

Table A25.1 NTNU, Department of Information Security and Communication Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 19 | 19 | 21 | 11 | 5 | 10 |
| Associate professors | 5 | 8 | 14 | 20 | 12 | 29 |
| Researchers and postdocs | 5 | 14 | 21 | 0 | 21 | 10 |
| PhD-students | 25 | 28 | 44 | 32 | 14 | 36 |
| Total | 54 | 69 | 100 | 20 | 13 | 24 |

Source: Statistics Norway

Table A25.2 NTNU, Department of Information Security and Communication Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 89 | 100 | 100 | 59 | 63 | 67 |
| Associate professors | 100 | 100 | 100 | 40 | 50 | 50 |
| Researchers and postdocs | 100 | 100 | 90 | 100 | 64 | 58 |
| Total | 93 | 100 | 96 | 59 | 61 | 57 |

Source: Statistics Norway
Table A25.3 NTNU, Department of Information Security and Communication Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 53 | 57 | 16 | 11 | 24 | 0 |
| Associate professors | 42 | 44 | 42 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 36 | 35 | 36 | 0 | 0 | 0 | 81 |
| PhD-students | 30 | 32 | 32 | 0 | 0 | 0 | 100 |
| Total | 40 | 40 | 39 | 6 | 3 | 5 | 7 |

[^15]Table A26.1 NTNU, Department of Computer Science, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 26 | 25 | 35 | 12 | 12 | 17 |
| Associate professors | 19 | 34 | 49 | 21 | 21 | 22 |
| Researchers and postdocs | 6 | 32 | 29 | 0 | 25 | 24 |
| PhD-students | 35 | 52 | 109 | 23 | 44 | 38 |
| Total | 86 | 143 | 222 | 17 | 29 | 29 |

Source: Statistics Norway
Table A26.2 NTNU, Department of Computer Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 92 | 92 | 100 | 25 | 35 | 40 |
| Associate professors | 95 | 97 | 90 | 6 | 30 | 41 |
| Researchers and postdocs | 100 | 97 | 79 | 67 | 65 | 57 |
| Total | 94 | 96 | 90 | 22 | 42 | 40 |

Source: Statistics Norway

Table A26.3 NTNU, Department of Computer Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 54 | 55 | 23 | 16 | 20 | 0 |
| Associate professors | 46 | 45 | 45 | 11 | 3 | 0 | 8 |
| Researchers and postdocs | 38 | 37 | 38 | 0 | 3 | 3 | 69 |
| PhD-students | 32 | 32 | 31 | 0 | 0 | 0 | 100 |
| Total | 42 | 40 | 39 | 9 | 4 | 4 | 10 |

Source: Statistics Norway
Table A27.1 USN, Department of Business and IT, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 2 | 3 | 6 | 0 | 33 | 33 |
| Associate professors | 6 | 8 | 10 | 17 | 12 | 10 |
| Researchers and postdocs |  |  |  |  |  |  |
| PhD-students | 1 | 1 | 0 | 0 | 100 | 0 |
| Total | 9 | 12 | 16 | 11 | 25 | 19 |

Source: Statistics Norway

Table A27.2 USN, Department of Business and IT, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 50 | 67 | 67 | 0 | 50 | 50 |
| Associate professors | 67 | 75 | 80 | 75 | 50 | 62 |
| Researchers and postdocs |  |  |  |  |  |  |
| Total | 62 | 73 | 75 | 38 | 36 | 44 |

[^16]Table A27.3 USN, Department of Business and IT, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 58 | 60 | 55 | 0 | 33 | 33 | 0 |
| Associate professors | 49 | 49 | 46 | 17 | 25 | 10 | 10 |
| PhD-students | 38 | 38 | 0 | 0 | 0 | 0 | 0 |
| Total | 50 | 51 | 49 | 11 | 25 | 19 | 6 |

Source: Statistics Norway

Table A28.1 USN, Department of Process, Energy and Environmental Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 7 | 8 | 10 | 14 | 12 | 20 |
| Associate professors | 14 | 10 | 15 | 14 | 30 | 13 |
| Researchers and postdocs | 1 | 2 | 3 | 100 | 50 | 0 |
| PhD-students | 9 | 13 | 14 | 33 | 8 | 43 |
| Total | 31 | 33 | 42 | 23 | 18 | 24 |

Source: Statistics Norway

Table A28.2 USN, Department of Process, Energy and Environmental Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 90 | 43 | 25 | 11 |
| Associate professors | 93 | 90 | 93 | 8 | 11 | 21 |
| Researchers and postdocs | 100 | 100 | 67 | 100 | 100 | 50 |
| Total | 95 | 95 | 89 | 23 | 25 | 18 |

Source: Statistics Norway
Table A28.3 USN, Department of Process, Energy and Environmental Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 57 | 56 | 57 | 14 | 25 | 40 | 0 |
| Associate professors | 46 | 44 | 44 | 14 | 0 | 0 | 13 |
| Researchers and postdocs | 32 | 40 | 37 | 0 | 0 | 0 | 67 |
| PhD-students | 31 | 32 | 35 | 0 | 0 | 0 | 100 |
| Total | 44 | 42 | 44 | 10 | 6 | 10 | 5 |

Source: Statistics Norway

Table A29.1 USN, Department of Microsystems, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 9 | 12 | 11 | 0 | 0 | 0 |
| Associate professors | 5 | 9 | 11 | 40 | 22 | 9 |
| Researchers and postdocs | 3 | 7 | 12 | 0 | 0 | 0 |
| PhD-students | 5 | 14 | 16 | 40 | 14 | 31 |
| Total | 22 | 42 | 50 | 18 | 10 | 12 |

Source: Statistics Norway

Table A29.2 USN, Department of Microsystems, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 89 | 92 | 100 | 38 | 45 | 64 |
| Associate professors | 100 | 100 | 100 | 60 | 11 | 18 |
| Researchers and postdocs | 100 | 86 | 83 | 0 | 33 | 40 |
| Total | 94 | 93 | 94 | 35 | 29 | 38 |

Source: Statistics Norway

Table A29.3 USN, Department of Microsystems, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 48 | 51 | 54 | 11 | 8 | 9 | 0 |
| Associate professors | 41 | 49 | 46 | 0 | 11 | 9 | 9 |
| Researchers and postdocs | 31 | 34 | 36 | 0 | 0 | 0 | 75 |
| PhD-students | 28 | 31 | 30 | 0 | 0 | 0 | 100 |
| Total | 40 | 41 | 41 | 5 | 5 | 4 | 0 |

Source: Statistics Norway

Table A30.1 Østfold university college, Faculty of Computer Science, Engineering and Economics, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 5 | 7 | 10 | 40 | 29 | 30 |
| Associate professors | 17 | 18 | 25 | 29 | 44 | 24 |
| Researchers and postdocs |  |  |  |  |  |  |
| PhD-students | 2 | 11 | 0 | 50 | 45 | 0 |
| Total | 24 | 36 | 35 | 33 | 42 | 26 |

Source: Statistics Norway

Table A30.2 Østfold university college, Faculty of Computer Science, Engineering and Economics, PhD-statistics

|  | Share of researchers with phddegree |  |  | Share of researchers with foreign phd-degree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 80 | 86 | 90 | 50 | 33 | 44 |
| Associate professors | 82 | 89 | 100 | 0 | 12 | 28 |
| Researchers and postdocs |  |  |  |  |  |  |
| Total | 82 | 88 | 97 | 9 | 16 | 31 |

Table A30.3 Østfold university college, Faculty of Computer Science, Engineering and Economics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 54 | 55 | 55 | 20 | 43 | 30 | 10 |
| Associate professors | 50 | 50 | 47 | 24 | 17 | 4 | 4 |
| PhD-students | 33 | 33 | 0 | 0 | 0 | 0 | 0 |
| Total | 50 | 46 | 49 | 21 | 17 | 11 | 9 |
| Source: Statistics Norway |  |  |  |  |  |  |  |

Table A31.1 NTNU, Department of ICT and Natural Sciences, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 2 | 1 | 5 | 0 | 0 | 0 |
| Associate professors | 9 | 12 | 7 | 11 | 8 | 29 |
| Researchers and postdocs | 1 | 0 | 0 | 0 | 0 | 0 |
| PhD-students | 4 | 3 | 13 | 0 | 67 | 31 |
| Total | 16 | 16 | 25 | 6 | 19 | 24 |

Source: Statistics Norway
Table A31.2 NTNU, Department of ICT and Natural Sciences, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 80 | 0 | 0 | 50 |
| Associate professors | 67 | 92 | 100 | 33 | 73 | 29 |
| Researchers and postdocs | 100 | 0 | 0 | 100 | 0 | 0 |
| Total | 75 | 92 | 92 | 25 | 62 | 33 |

Table A31.3 NTNU, Department of ICT and Natural Sciences, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 53 | 42 | 45 | 50 | 0 | 0 | 0 |
| Associate professors | 47 | 45 | 43 | 11 | 17 | 0 | 0 |
| Researchers and postdocs | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| PhD-students | 40 | 30 | 29 | 0 | 0 | 0 | 100 |
| Total | 45 | 42 | 36 | 12 | 12 | 0 | 4 |

Source: Statistics Norway
Table A32.1 NTNU, Department of Architecture and Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 4 | 10 | 10 | 50 | 30 | 30 |
| Associate professors | 9 | 13 | 17 | 33 | 38 | 47 |
| Researchers and postdocs | 2 | 5 | 2 | 50 | 40 | 50 |
| PhD-students | 9 | 10 | 17 | 44 | 50 | 35 |
| Total | 24 | 38 | 46 | 42 | 39 | 39 |

Source: Statistics Norway

Table A32.2 NTNU, Department of Architecture and Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 75 | 90 | 80 | 0 | 22 | 25 |
| Associate professors | 56 | 38 | 24 | 60 | 60 | 50 |
| Researchers and postdocs | 100 | 100 | 0 | 100 | 20 | 0 |
| Total | 67 | 68 | 41 | 33 | 21 | 14 |

[^17]Table A32.3 NTNU, Department of Architecture and Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 56 | 58 | 57 | 25 | 30 | 40 | 10 |
| Associate professors | 52 | 47 | 54 | 33 | 8 | 29 | 0 |
| Researchers and postdocs | 37 | 40 | 44 | 0 | 0 | 0 | 50 |
| PhD-students | 32 | 32 | 32 | 0 | 0 | 0 | 100 |
| Total | 44 | 45 | 46 | 17 | 11 | 20 | 13 |

Source: Statistics Norway

Table A33.1 NTNU, Department of Electric Power Engineering, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 9 | 12 | 12 | 11 | 17 |  |  |
| Associate professors | 2 | 6 | 12 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 6 | 7 | 10 | 0 | 14 | 0 |  |
| PhD-students | 32 | 24 | 49 | 28 | 17 | 18 |  |
| Total | 49 | 49 | 83 | 20 | 12 | 13 |  |

Source: Statistics Norway
Table A33.2 NTNU, Department of Electric Power Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 92 | 100 | 11 | 18 | 25 |
| Associate professors | 100 | 100 | 100 | 0 | 33 | 42 |
| Researchers and postdocs | 83 | 100 | 80 | 60 | 14 | 50 |
| Total | 94 | 96 | 94 | 24 | 20 | 35 |

Source: Statistics Norway

Table A33.3 NTNU, Department of Electric Power Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | $\begin{array}{r} \hline \text { Share with } \\ \text { temporary } \\ \text { position } \\ 2021 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 53 | 55 | 56 | 22 | 25 | 33 | 0 |
| Associate professors | 45 | 42 | 42 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 33 | 36 | 38 | 0 | 0 | 0 | 60 |
| PhD-students | 31 | 30 | 30 | 0 | 0 | 0 | 98 |
| Total | 36 | 39 | 36 | 4 | 6 | 5 | 7 |

Source: Statistics Norway
Table A34.1 NTNU, Department of Engineering Cybernetics, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 10 | 10 | 15 | 10 | 20 | 20 |
| Associate professors | 4 | 7 | 10 | 0 | 14 | 10 |
| Researchers and postdocs | 11 | 17 | 14 | 18 | 18 | 21 |
| PhD-students | 48 | 51 | 97 | 10 | 18 | 18 |
| Total | 73 | 85 | 136 | 11 | 18 | 18 |

Source: Statistics Norway

Table A34.2 NTNU, Department of Engineering Cybernetics, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 10 | 20 | 40 |
| Associate professors | 100 | 100 | 100 | 0 | 29 | 10 |
| Researchers and postdocs | 91 | 82 | 100 | 40 | 0 | 43 |
| Total | 96 | 91 | 100 | 20 | 12 | 33 |

Source: Statistics Norway

Table A34.3 NTNU, Department of Engineering Cybernetics, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 48 | 51 | 51 | 10 | 10 | 7 | 0 |
| Associate professors | 47 | 51 | 44 | 0 | 14 | 0 | 30 |
| Researchers and postdocs | 33 | 32 | 36 | 0 | 0 | 0 | 64 |
| PhD-students | 29 | 29 | 28 | 0 | 0 | 0 | 100 |
| Total | 33 | 34 | 33 | 1 | 2 | 1 | 7 |

Source: Statistics Norway

Table A35.1 NTNU, Department of Electronic Systems, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 19 | 22 | 26 | 16 | 14 | 12 |
| Associate professors | 7 | 11 | 11 | 14 | 9 | 36 |
| Researchers and postdocs | 5 | 13 | 15 | 20 | 38 | 20 |
| PhD-students | 37 | 34 | 47 | 14 | 15 | 23 |
| Total | 68 | 80 | 99 | 15 | 18 | 21 |

Source: Statistics Norway

Table A35.2 NTNU, Department of Electronic Systems, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 100 | 100 | 37 | 50 | 54 |
| Associate professors | 86 | 91 | 100 | 33 | 0 | 9 |
| Researchers and postdocs | 100 | 100 | 93 | 60 | 38 | 64 |
| Total | 97 | 98 | 98 | 39 | 35 | 46 |

Source: Statistics Norway
Table A35.3 NTNU, Department of Electronic Systems, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 54 | 53 | 57 | 16 | 5 | 38 | 0 |
| Associate professors | 51 | 56 | 50 | 29 | 27 | 27 | 0 |
| Researchers and postdocs | 33 | 33 | 36 | 0 | 0 | 0 | 67 |
| PhD-students | 29 | 30 | 30 | 0 | 0 | 0 | 100 |
| Total | 38 | 40 | 40 | 7 | 5 | 13 | 5 |

Source: Statistics Norway

Table A36.1 NTNU, Department of Mathematical Sciences, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 31 | 35 | 35 | 13 | 17 | 20 |
| Associate professors | 14 | 16 | 28 | 29 | 19 | 25 |
| Researchers and postdocs | 14 | 17 | 22 | 21 | 24 | 27 |
| PhD-students | 47 | 50 | 69 | 26 | 20 | 16 |
| Total | 106 | 118 | 154 | 22 | 19 | 20 |

Source: Statistics Norway
Table A36.2 NTNU, Department of Mathematical Sciences, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 94 | 94 | 97 | 48 | 42 | 44 |
| Associate professors | 86 | 94 | 96 | 42 | 80 | 52 |
| Researchers and postdocs | 100 | 100 | 100 | 86 | 47 | 73 |
| Total | 93 | 96 | 98 | 53 | 50 | 53 |

Source: Statistics Norway

Table A36.3 NTNU, Department of Mathematical Sciences, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 55 | 54 | 55 | 42 | 29 | 26 | 0 |
| Associate professors | 43 | 44 | 43 | 0 | 12 | 7 | 18 |
| Researchers and postdocs | 31 | 31 | 32 | 0 | 0 | 0 | 91 |
| PhD-students | 28 | 27 | 28 | 0 | 0 | 0 | 100 |
| Total | 39 | 38 | 37 | 12 | 10 | 7 | 2 |

Source: Statistics Norway

Table A37.1 NTNU, Department of Geoscience and Petroleum, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 24 | 20 | 24 | 8 | 10 | 8 |
| Associate professors | 8 | 13 | 11 | 12 | 15 | 18 |
| Researchers and postdocs | 8 | 24 | 12 | 12 | 21 | 33 |
| PhD-students | 41 | 53 | 41 | 22 | 30 | 27 |
| Total | 81 | 110 | 88 | 16 | 23 | 22 |

Source: Statistics Norway

Table A37.2 NTNU, Department of Geoscience and Petroleum, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 96 | 100 | 100 | 43 | 45 | 50 |
| Associate professors | 100 | 100 | 100 | 25 | 15 | 36 |
| Researchers and postdocs | 63 | 88 | 92 | 40 | 38 | 64 |
| Total | 90 | 95 | 98 | 35 | 33 | 49 |

Source: Statistics Norway

Table A37.3 NTNU, Department of Geoscience and Petroleum, Age statistics

|  |  |  |  |  |  | Share with <br> temporary <br> position |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | Average age |  | Share of researchers 62 years or older |  |  |

Source: Statistics Norway

Table A38.1 NTNU, Department of Structural Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 18 | 19 | 20 | 11 | 16 | 15 |
| Associate professors | 8 | 4 | 8 | 12 | 25 | 12 |
| Researchers and postdocs | 7 | 20 | 30 | 29 | 0 | 17 |
| PhD-students | 32 | 61 | 46 | 25 | 21 | 26 |
| Total | 65 | 104 | 104 | 20 | 16 | 20 |

Source: Statistics Norway
Table A38.2 NTNU, Department of Structural Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 89 | 95 | 100 | 6 | 22 | 20 |
| Associate professors | 100 | 100 | 100 | 12 | 25 | 25 |
| Researchers and postdocs | 100 | 100 | 97 | 14 | 30 | 38 |
| Total | 94 | 98 | 98 | 9 | 26 | 29 |

Source: Statistics Norway

Table A38.3 NTNU, Department of Structural Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 55 | 54 | 56 | 28 | 16 | 35 | 0 |
| Associate professors | 39 | 36 | 40 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 34 | 33 | 33 | 0 | 0 | 0 | 83 |
| PhD-students | 28 | 29 | 28 | 0 | 0 | 0 | 100 |
| Total | 38 | 34 | 36 | 8 | 3 | 7 | 4 |

Source: Statistics Norway
Table A39.1 NTNU, Department of Mechanical and Industrial Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 9 | 20 | 19 | 0 | 15 | 11 |
| Associate professors | 6 | 18 | 21 | 17 | 11 | 19 |
| Researchers and postdocs | 4 | 15 | 20 | 25 | 13 | 25 |
| PhD-students | 16 | 66 | 83 | 12 | 18 | 37 |
| Total | 35 | 119 | 143 | 11 | 16 | 29 |

Source: Statistics Norway

Table A39.1 NTNU, Department of Mechanical and Industrial Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 89 | 100 | 100 | 25 | 35 | 53 |
| Associate professors | 100 | 94 | 100 | 33 | 29 | 29 |
| Researchers and postdocs | 75 | 87 | 95 | 67 | 31 | 26 |
| Total | 89 | 94 | 98 | 32 | 30 | 35 |

Source: Statistics Norway

Table A39.1 NTNU, Department of Mechanical and Industrial Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 59 | 53 | 52 | 56 | 15 | 21 | 0 |
| Associate professors | 46 | 47 | 45 | 0 | 17 | 5 | 10 |
| Researchers and postdocs | 38 | 35 | 32 | 0 | 0 | 0 | 85 |
| PhD-students | 29 | 30 | 31 | 0 | 0 | 0 | 100 |
| Total | 41 | 37 | 36 | 14 | 5 | 3 | 4 |

Source: Statistics Norway

Table A40.1 NTNU, Department of Manufacturing and Civil Engineering, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 10 | 8 | 6 | 10 | 12 | 17 |
| Associate professors | 5 | 18 | 20 | 40 | 33 | 30 |
| Researchers and postdocs | 3 | 2 | 3 | 0 | 0 | 0 |
| PhD-students | 20 | 12 | 16 | 25 | 42 | 12 |
| Total | 38 | 40 | 45 | 21 | 30 | 20 |

Source: Statistics Norway

Table A40.2 NTNU, Department of Manufacturing and Civil Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 100 | 75 | 83 | 20 | 33 | 60 |
| Associate professors | 100 | 89 | 95 | 20 | 31 | 32 |
| Researchers and postdocs | 67 | 50 | 100 | 0 | 100 | 67 |
| Total | 94 | 82 | 93 | 17 | 29 | 38 |

Source: Statistics Norway

Table A40.3 NTNU, Department of Manufacturing and Civil Engineering, Age statistics

|  |  |  |  |  |  | Share with <br> temporary |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | Average age |  |  | Share of researchers 62 years or older |  | | position |
| ---: | :--- | ---: | ---: | ---: |

Source: Statistics Norway

Table A41.1 NTNU, Department of Marine Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 18 | 21 | 19 | 11 | 14 | 16 |
| Associate professors | 3 | 7 | 6 | 0 | 14 | 33 |
| Researchers and postdocs | 11 | 21 | 21 | 27 | 29 | 10 |
| PhD-students | 64 | 60 | 67 | 19 | 8 | 21 |
| Total | 96 | 109 | 113 | 18 | 14 | 19 |

Source: Statistics Norway
Table A41.2 NTNU, Department of Marine Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 94 | 95 | 95 | 24 | 10 | 11 |
| Associate professors | 33 | 86 | 100 | 0 | 33 | 17 |
| Researchers and postdocs | 91 | 81 | 81 | 60 | 24 | 47 |
| Total | 88 | 88 | 89 | 31 | 16 | 24 |

Source: Statistics Norway

Table A41.3 NTNU, Department of Marine Technology, Age statistics

|  |  |  |  |  |  | Share with <br> temporary <br> position |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | Average age |  |  | Share of researchers 62 years or older |  |

Source: Statistics Norway

Table A42.1 NTNU, Department of Energy and Process Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 24 | 27 | 32 | 4 | 4 | 12 |
| Associate professors | 5 | 16 | 14 | 40 | 19 | 7 |
| Researchers and postdocs | 29 | 43 | 42 | 7 | 28 | 17 |
| PhD-students | 57 | 81 | 100 | 26 | 27 | 31 |
| Total | 115 | 167 | 188 | 17 | 23 | 23 |

Source: Statistics Norway

Table A42.2 NTNU, Department of Energy and Process Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 92 | 93 | 94 | 18 | 28 | 40 |
| Associate professors | 100 | 94 | 100 | 40 | 33 | 43 |
| Researchers and postdocs | 90 | 91 | 95 | 42 | 46 | 60 |
| Total | 91 | 92 | 95 | 29 | 35 | 48 |

Source: Statistics Norway

Table A42.3 NTNU, Department of Energy and Process Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 55 | 54 | 53 | 21 | 37 | 34 | 0 |
| Associate professors | 47 | 43 | 43 | 0 | 6 | 0 | 21 |
| Researchers and postdocs | 33 | 34 | 34 | 0 | 0 | 0 | 86 |
| PhD-students | 29 | 30 | 29 | 0 | 0 | 0 | 100 |
| Total | 36 | 36 | 36 | 4 | 7 | 6 | 4 |

Source: Statistics Norway

Table A43.1 Oslomet, Department of Mechanical, Electronic and Chemical Engineering, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 0 | 7 | 0 | 0 | 43 |
| Associate professors | 13 | 15 | 11 | 54 | 47 | 18 |
| Researchers and postdocs | 1 | 0 | 2 | 0 | 0 | 50 |
| PhD-students | 0 | 2 | 8 | 0 | 100 | 50 |
| Total | 14 | 17 | 28 | 50 | 53 | 36 |

Source: Statistics Norway

Table A43.2 Oslomet, Department of Mechanical, Electronic and Chemical Engineering, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 0 | 100 | 0 | 0 | 86 |
| Associate professors | 92 | 93 | 100 | 17 | 21 | 18 |
| Researchers and postdocs | 100 | 0 | 50 | 0 | 0 | 100 |
| Total | 93 | 93 | 95 | 14 | 20 | 45 |

Source: Statistics Norway
Table A43.3 Oslomet, Department of Mechanical, Electronic and Chemical Engineering, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 0 | 0 | 46 | 0 | 0 | 0 | 14 |
| Associate professors | 48 | 50 | 48 | 0 | 0 | 18 | 9 |
| Researchers and postdocs | 68 | 0 | 31 | 100 | 0 | 0 | 100 |
| PhD-students | 0 | 27 | 30 | 0 | 0 | 0 | 100 |
| Total | 49 | 47 | 41 | 7 | 0 | 7 | 4 |

Source: Statistics Norway
Table A44.1 Oslomet, Department of Computer Science, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 6 | 6 | 13 | 0 | 17 | 15 |
| Associate professors | 18 | 23 | 23 | 17 | 22 | 26 |
| Researchers and postdocs | 0 | 1 | 4 | 0 | 100 | 25 |
| PhD-students | 1 | 6 | 12 | 100 | 17 | 42 |
| Total | 25 | 36 | 52 | 16 | 22 | 27 |

Source: Statistics Norway

Table A44.2 Oslomet, Department of Computer Science, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 83 | 83 | 92 | 0 | 40 | 50 |
| Associate professors | 83 | 100 | 100 | 27 | 26 | 30 |
| Researchers and postdocs | 0 | 100 | 25 | 0 | 0 | 100 |
| Total | 83 | 97 | 90 | 17 | 27 | 35 |

Source: Statistics Norway

Table A44.3 Oslomet, Department of Computer Science, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 58 | 50 | 48 | 50 | 17 | 8 | 0 |
| Associate professors | 49 | 44 | 47 | 28 | 0 | 9 | 17 |
| Researchers and postdocs | 0 | 39 | 33 | 0 | 0 | 0 | 100 |
| PhD-students | 33 | 34 | 32 | 0 | 0 | 0 | 100 |
| Total | 50 | 43 | 43 | 32 | 3 | 6 | 12 |

Source: Statistics Norway

Table A45.1 Oslomet, Department of Built Environment, Number of researchers and share of women

|  | Number of researchers |  |  |  | Share of women |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 3 | 5 | 0 | 33 | 60 |
| Associate professors | 3 | 9 | 11 | 0 | 11 | 27 |
| Researchers and postdocs | 1 | 1 | 0 | 0 | 100 | 0 |
| PhD-students | 2 | 6 | 5 | 50 | 17 | 0 |
| Total | 6 | 19 | 21 | 17 | 21 | 29 |

Source: Statistics Norway
Table A45.2 Oslomet, Department of Built Environment, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 67 | 100 | 0 | 0 | 40 |
| Associate professors | 100 | 100 | 100 | 0 | 33 | 64 |
| Researchers and postdocs | 100 | 100 | 0 | 0 | 100 | 0 |
| Total | 100 | 92 | 100 | 0 | 31 | 56 |

Source: Statistics Norway

Table A45.3 Oslomet, Department of Built Environment, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 0 | 58 | 50 | 0 | 33 | 0 | 0 |
| Associate professors | 44 | 42 | 41 | 33 | 0 | 0 | 0 |
| Researchers and postdocs | 44 | 34 | 0 | 0 | 0 | 0 | 0 |
| PhD-students | 27 | 32 | 29 | 0 | 0 | 0 | 100 |
| Total | 38 | 41 | 40 | 17 | 5 | 0 | 5 |

Source: Statistics Norway

Table A46.1 USN, Department of Science and Industry systems, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 6 | 14 | 0 | 17 | 14 |
| Associate professors | 0 | 14 | 12 | 0 | 29 | 17 |
| Researchers and postdocs | 0 | 1 | 1 | 0 | 100 | 0 |
| PhD-students | 0 | 2 | 3 | 0 | 50 | 0 |
| Total | 0 | 23 | 30 | 0 | 30 | 13 |

Source: Statistics Norway
Table A46.2 USN, Department of Science and Industry systems, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 100 | 93 | 0 | 50 | 46 |
| Associate professors | 0 | 100 | 92 | 0 | 29 | 27 |
| Researchers and postdocs | 0 | 100 | 100 | 0 | 0 | 100 |
| Total | 0 | 100 | 93 | 0 | 33 | 37 |

Source: Statistics Norway

Table A46.3 USN, Department of Science and Industry systems, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 | 2021 |
| Professors | 0 | 58 | 55 | 0 | 17 | 36 | 0 |
| Associate professors | 0 | 47 | 49 | 0 | 14 | 17 | 8 |
| Researchers and postdocs | 0 | 47 | 36 | 0 | 0 | 0 | 100 |
| PhD-students | 0 | 33 | 35 | 0 | 0 | 0 | 100 |
| Total | 0 | 49 | 50 | 0 | 13 | 23 | 10 |

Source: Statistics Norway
Table A47.1 Kristiania university college, School of Economics, Innovation and Technology, Number of researchers and share of women

|  | Number of researchers |  |  | Share of women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 1 | 1 | 7 | 0 | 0 | 0 |
| Associate professors | 5 | 9 | 17 | 0 | 22 | 35 |
| Researchers and postdocs | 0 | 0 | 5 | 0 | 0 | 60 |
| PhD-students | 3 | 0 | 4 | 33 | 0 | 25 |
| Total | 9 | 10 | 33 | 11 | 20 | 30 |

Source: Statistics Norway

Table A47.2 Kristiania university college, School of Economics, Innovation and Technology, PhD-statistics

|  | Share of researchers with phd-degree |  |  | Share of researchers with foreign phddegree |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |
| Professors | 0 | 100 | 100 | 0 | 100 | 43 |
| Associate professors | 100 | 100 | 100 | 20 | 56 | 41 |
| Researchers and postdocs | 0 | 0 | 100 | 0 | 0 | 40 |
| Total | 83 | 100 | 100 | 17 | 60 | 41 |

Source: Statistics Norway

Table A47.3 Kristiania university college, School of Economics, Innovation and Technology, Age statistics

|  | Average age |  |  | Share of researchers 62 years or older |  |  | Share with temporary position 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2013 | 2017 | 2021 | 2013 | 2017 | 2021 |  |
| Professors | 57 | 39 | 50 | 0 | 0 | 29 | 0 |
| Associate professors | 40 | 42 | 42 | 0 | 0 | 0 | 0 |
| Researchers and postdocs | 0 | 0 | 39 | 0 | 0 | 20 | 100 |
| PhD-students | 34 | 0 | 29 | 0 | 0 | 0 | 100 |
| Total | 40 | 42 | 42 | 0 | 0 | 9 | 0 |

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[^0]:    ${ }^{1}$ For more information: https://www.forskningsradet.no/tall-analyse/evalueringer/fag-tema/evaluering-matematikk-iktteknologi/
    ${ }^{2}$ The presentation of this part is based on (The Research Council of Norway (2021): Science and Technology Indicators for Norway 2021.

[^1]:    ${ }^{3}$ In international R\&D statistics the Norwegian business enterprise sector includes the enterprises (here industrial sector) and in addition business-oriented institutes that primarily serve business. This is in accordance with OECD guidelines (OECD, 2015, Frascati Manual).

[^2]:    SIVA: The Industrial Development Corporation of Norway. GIEK-The Norwegian Export Credit Guarantee Agency.
    ENOVA: A state-owned enterprise for the restructuring of energy use and energy production.
    SkatteFUNN: The Norwegian tax deduction scheme.
    Source: The Research Council of Norway (2021): Science and Technology Indicators for Norway 2021.

[^3]:    ${ }^{4}$ «Hver tredje forsker i norsk akademia er innvandrer» (See: https://www.ssb.no/teknologi-og-innovasjon/forskning-og-innovasjon-i-naeringslivet/statistikk/forskerpersonale/artikler/hver-tredje-forsker-i-norsk-akademia-er-innvandrer)_SSB-Table 13921)

[^4]:    Source: Statistics Norway

[^5]:    Source: Statistics Norway

[^6]:    Source: Statistics Norway

[^7]:    Source: Statistics Norway. Table 13513

[^8]:    Source: Statistics Norway

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