



Employment analysis of PhD graduates from the University of Copenhagen 2008-2016

Based on registry data from Statistics Denmark

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1 PhD graduates from the University of Copenhagen

With the 2006¹Globalisation Agreement, Danish universities entered into an agreement with the Ministry of Higher Education and Science to boost the national research capacity in order to deliver on the goal of bringing public-sector research in Denmark in both quantity and quality to a level that would measure with the best in the world. This capacity building was, among other things, to result from a doubling of the 2010 PhD intake.

For the University of Copenhagen, this meant an increase from 435 PhD students in 2006 to a minimum of 870 in 2010 – a target the University exceeded by 63. In the six years from 2011 to 2016, the University's PhD intake varied across an average of 854 PhD students. Due to cutbacks at UCPH in 2016, the intake was reduced from 2016, where savings of DKK 105 million in the PhD area were to be realised up until 2018.

Purpose of survey

The focal points of this PhD graduate survey are the following:

- Where do the University's PhDs find employment? In which industries or sectors are they employed and in which types of job?
- How long does it take from PhD graduation to the first job?
- What are PhDs paid in their first job?
- How many international PhDs from UCPH have stayed in Denmark, and how many left the country within the first year?
- How many Danish PhDs from UCPH have gone abroad, and how many have returned to Denmark within the first year?

In this graduate survey, most of the graphs are divided into Danish and international graduates. This is because almost 40% of the group of international students were listed as "not an employee" in many of the extracts we received from Statistics Denmark (DST). This is not solely because the international graduates are unemployed, it is also because DST cannot find the international graduates in their databases, either because they have left the country without informing the authorities or because they, for other reasons, are not found in the extracts focused on.

The survey is based on data extracts from Statistics Denmark in the years 2008-2016. Data from before 2008 is not of a comparable quality. 2016 is the latest available year because the data extract concerns PhDs who graduated in 2016 and up to one year after graduation, i.e. until the end of 2017.

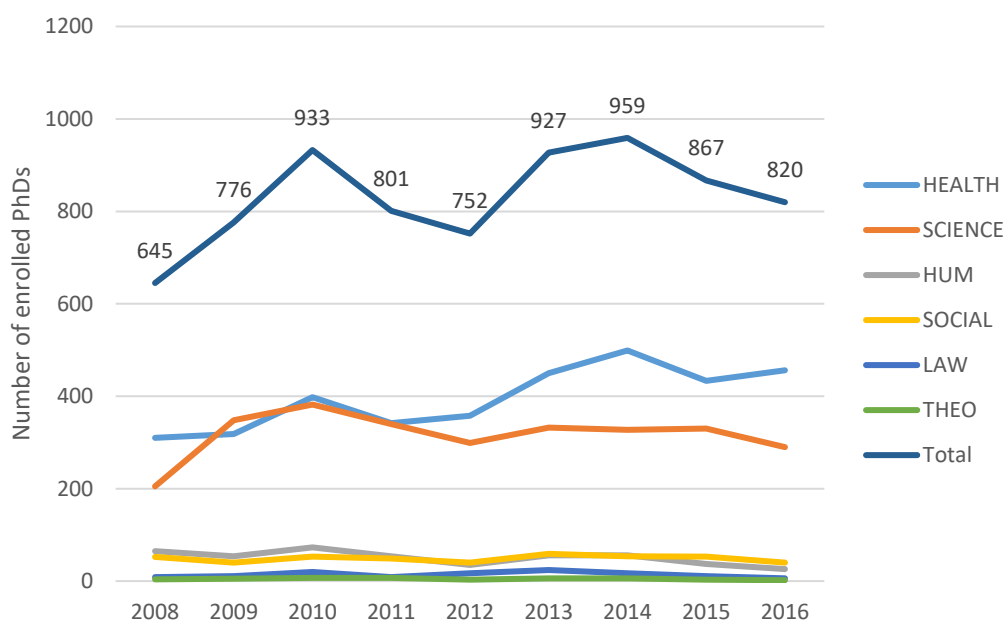
¹The Agreement on the implementation of the globalisation funds was entered into on 2 November 2006 by the Liberal Party, the Conservative People's Party, the Social Democrats, the Danish People's Party and the Social Liberals.

Data has been aggregated in order to safeguard the individual graduate’s anonymity. A minimum of five individuals is required for a group before any information relating to employment is shown. For confidentiality purposes, employment data is not broken down on department level. However, each faculty report provides an overview of the number of graduates for each department. This version of the graduate survey also includes tables with only two time periods (2008-2012 and 2013-2016) also with regard to confidentiality.

As the populations from the Faculty of Law and the Faculty of Theology do not number the necessary five individuals in all years within the time frame, the Faculty of Theology has been combined with the Faculty of Humanities, and the Faculty of Law has been combined with the Faculty of Social Sciences when accounting for place of employment and conditions of employment. The Biotech Research and Innovation Centre (BRIC) has been combined with the Faculty of Health and Medical Sciences.

Chart 1 shows the development in the number of Danish and international PhD students enrolled in the period 2008-2016. As can be seen from the graph, the number of PhD students enrolled declined from 2014-2016, which, among other things, was a result of an Executive Board decision in 2013 to adjust the target figure from 930 to 820.

Chart 1: Development in the number of enrolments of Danish and international PhD Students 2008-2016



Source: UCPH PhD administration system, Fønix. NB: 2009 - 2015 follow the calendar year, previous years follow the academic year. LIFE and FARMA were individual faculties from 2007 to 2011, but has been merged with SCIENCE and HEALTH. Growth in enrolments are particularly evident in 2009 and 2010, as will be reflected in graduations in 2013 and 2014.

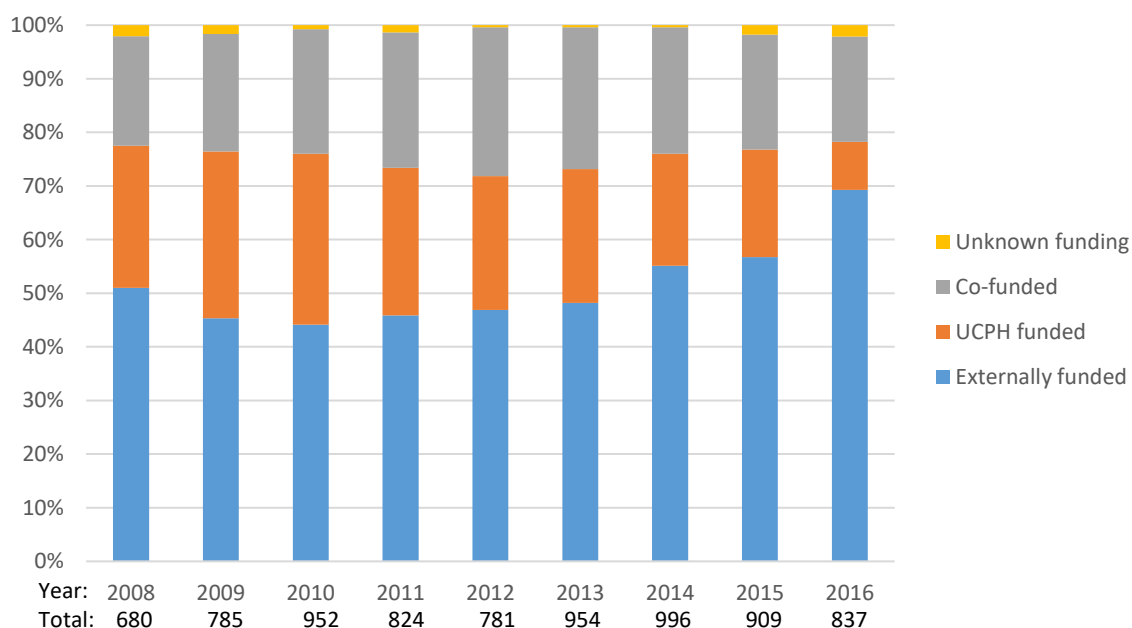
Table 1: Development in the number of enrolments of Danish and international PhD Students 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| HEALTH | 310 | 318 | 398 | 342 | 358 | 450 | 499 | 433 | 456 |
| SCIENCE | 205 | 348 | 382 | 340 | 299 | 332 | 327 | 330 | 290 |
| HUM | 65 | 54 | 73 | 54 | 35 | 56 | 56 | 37 | 26 |
| SOCIAL | 52 | 40 | 53 | 49 | 40 | 59 | 54 | 53 | 40 |
| LAW | 9 | 11 | 20 | 9 | 17 | 24 | 17 | 11 | 6 |
| THEO | 4 | 5 | 7 | 7 | 3 | 6 | 6 | 3 | 2 |
| Total | 645 | 776 | 933 | 801 | 752 | 927 | 959 | 867 | 820 |

Source: UCPH PhD administration system, Fønix d. 25.09.18.

From 2008 to 2016, there was a development towards more and more PhD projects being externally funded. 51% was externally funded in 2008, with 69% in 2016.

Chart 2: Total funding of enrolled PhD students 2008-2016



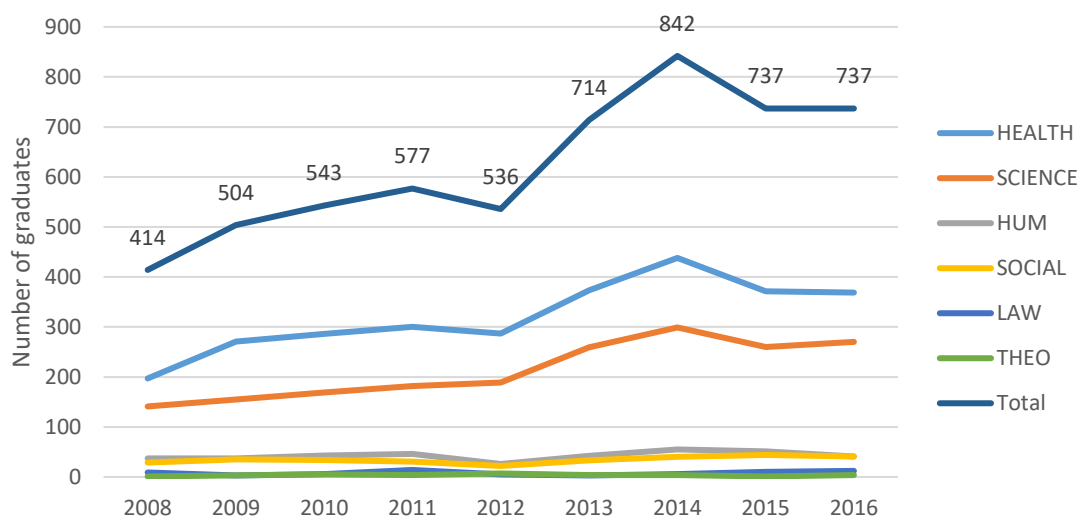
Source: UCPH PhD administration system, Fønix d. 25.09.18²

² There is a discrepancy between the total number of enrolled PhD students (Figure 1) and total funding of enrolled PhD students (Figure 2). The reason is that external funding may comprise several external funding sources, which is why the total in Figure 2 is higher than in Figure 1.

1.1 Development in PhD degrees awarded by UCPH in 2008-2016

As a consequence of the increased intake as indicated in the introduction, there was an increase in the number of degrees awarded by UCPH. The increase in 2013 and 2014 was a result of the mergers of SCIENCE and SUND with LIFE and FARMA, respectively.

Chart 3: PhDs awarded by faculty in in 2008-2016



Source: Statistics Denmark, August 2018

1.2 Employment rate for UCPH PhD graduates

The numbers for graduates' employment have been arrived at as follows: Graduates were first looked up in Statistics Denmark's employee register. If they were not found to be registered as employees within the first year of graduation, it was investigated whether they were registered as persons receiving public benefits. Failing that, they were looked up in the CVR register. Failing that, it was investigated whether they were registered as emigrants. Failing that, they were marked "Unknown."

Charts 4 and 5 show the employment rate. In 2016, there were 45 Danish and international graduates registered as "receiving public benefits," corresponding to 6% of the year group. This group of graduates mainly consists of unemployment benefit recipients, but there is also a small number of sickness and maternity/paternity benefit recipients as well as people on holiday allowance or attending upgrading courses/continuing education. This means that PhD unemployment is in line with the general unemployment for academics within 2-4 years of graduation³.

³Data taken from the Confederation of Professional Associations' own statistics (time series and figures) dated 10 August 2017: <http://www.ac.dk/politik/beskaeftigelse-og-arbejdsmarked/akademikernes-ledighedsstatistik/tidsserier-og-sommerdimitter.aspx>(in Danish)

It is estimated that "Undisclosed" largely covers emigrants who have not registered their exit with the National Registration Office.

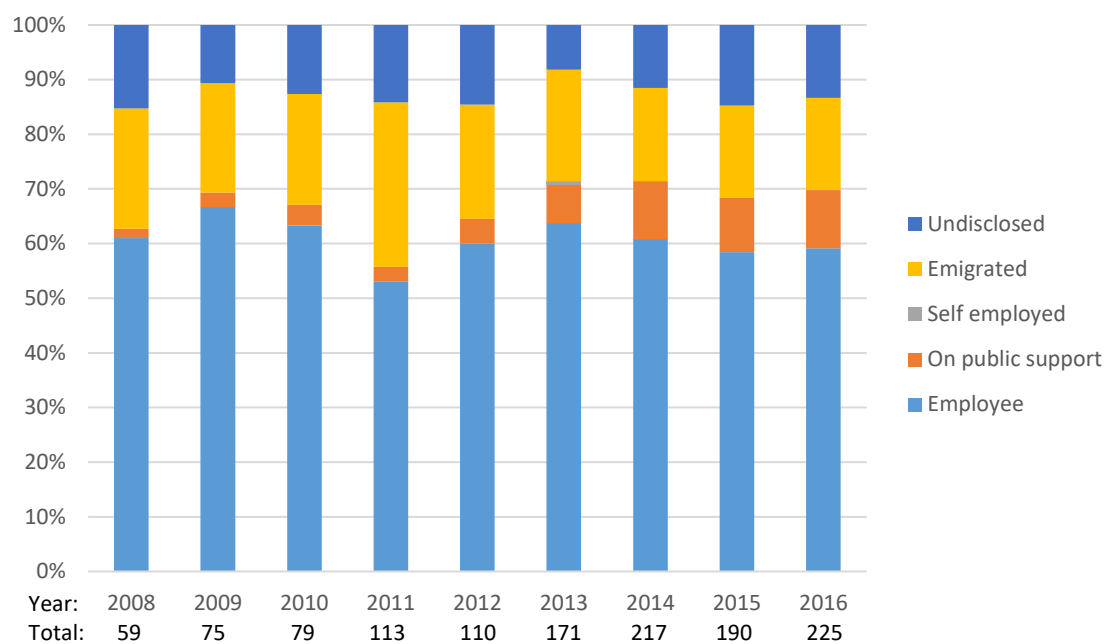
In the period 2008-2016, an average 95% of Danish PhD graduates were employees. Of the international graduates, an average 61% were employees in the period 2008-2016. The rate of emigrated Danes was at a stable level of about 2% during the entire period. For the international graduates there was a slight decrease from 22% in 2008 to 17% in 2016.

Chart 4: Employment rate for Danish UCPH graduates 2008-2016, percent



Source: Statistics Denmark, August 2018

Chart 5: Employment rate for international UCPH graduates 2008-2016, percent



Source: Statistics Denmark, August 2018

Table 2: Employment rate one year after graduation 2008-2016, number

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Employee | | | | | | | | | | 4832 |
| Danish | 372 | 407 | 437 | 427 | 399 | 507 | 565 | 507 | 464 | |
| International | 36 | 50 | 50 | 60 | 66 | 109 | 132 | 111 | 133 | |
| On public support | | | | | | | | | | 208 |
| Danish | 6 | 8 | 14 | 15 | 7 | 12 | 20 | 13 | 21 | |
| International | 1 | 2 | 3 | 3 | 5 | 12 | 23 | 19 | 24 | |
| Self Employed | | | | | | | | | | 9 |
| Danish | 1 | | | 1 | 1 | 1 | | 2 | 2 | |
| International | | | | | | 1 | | | | |
| Emigrated | | | | | | | | | | 317 |
| Danish | | 7 | 8 | 9 | 12 | 10 | 14 | 6 | 8 | |
| International | 13 | 15 | 16 | 34 | 23 | 35 | 37 | 32 | 38 | |
| Undisclosed | | | | | | | | | | 202 |
| Danish | 2 | 3 | 1 | 7 | 3 | 8 | 11 | 4 | 7 | |
| International | 9 | 8 | 10 | 16 | 16 | 14 | 25 | 28 | 30 | |
| Total | 440 | 500 | 539 | 572 | 532 | 709 | 827 | 722 | 727 | 5568 |

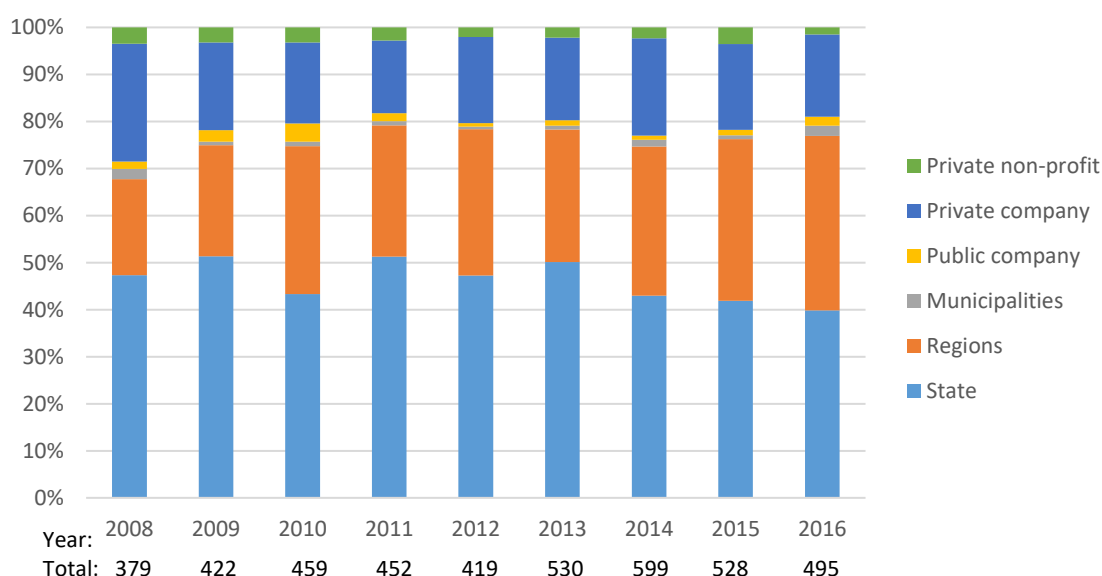
Source: Statistics Denmark, August 2018

1.3 Sectoral breakdown for UCPH graduates' first job

Charts 6 and 7 show that 71% of Danish PhD graduates found their first job in the state sector and in the regions. International PhDs mainly found their first job in the state sector and in the private sector (52%).

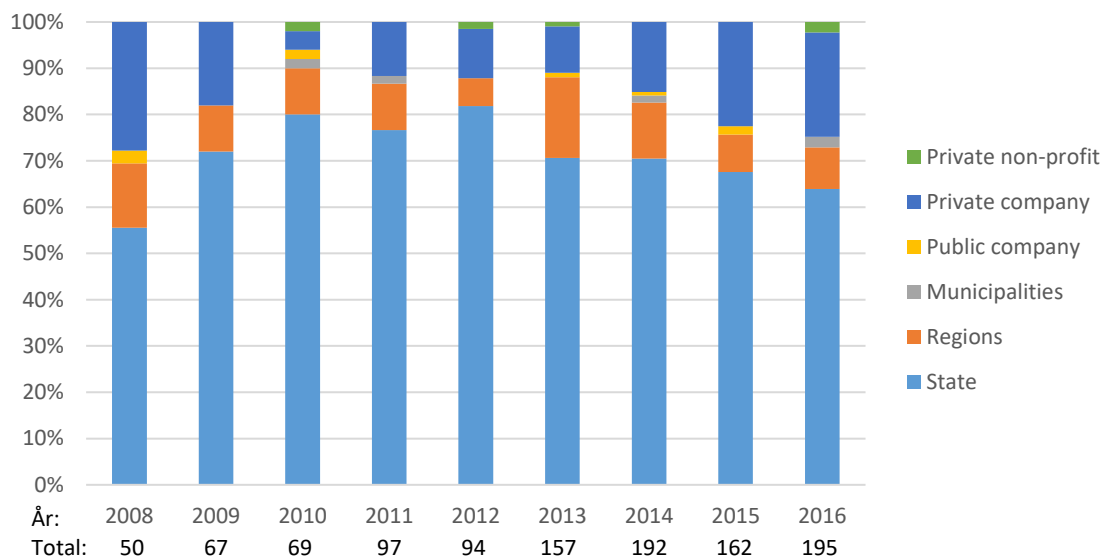
Charts 6 and 7 can be compared with Charts 15 and 16 (employee full-time/part-time), which show a strong tendency for part-time positions as PhD graduates' first job. The sectoral breakdown held against employment type indicates that a significant proportion of PhDs start their career as an employee, either in ordinary medical jobs at hospitals or in part-time positions at the University, most likely either to finalise an attachment formed during the PhD phase or to maintain an attachment until a more permanent employment opportunity arises.

Chart 6: Sectoral breakdown for Danish employees in their first job 2008-2016, percent



Source: Statistics Denmark, August 2018

Chart 7: Sectoral breakdown for International employees in their first job 2008-2016, percent

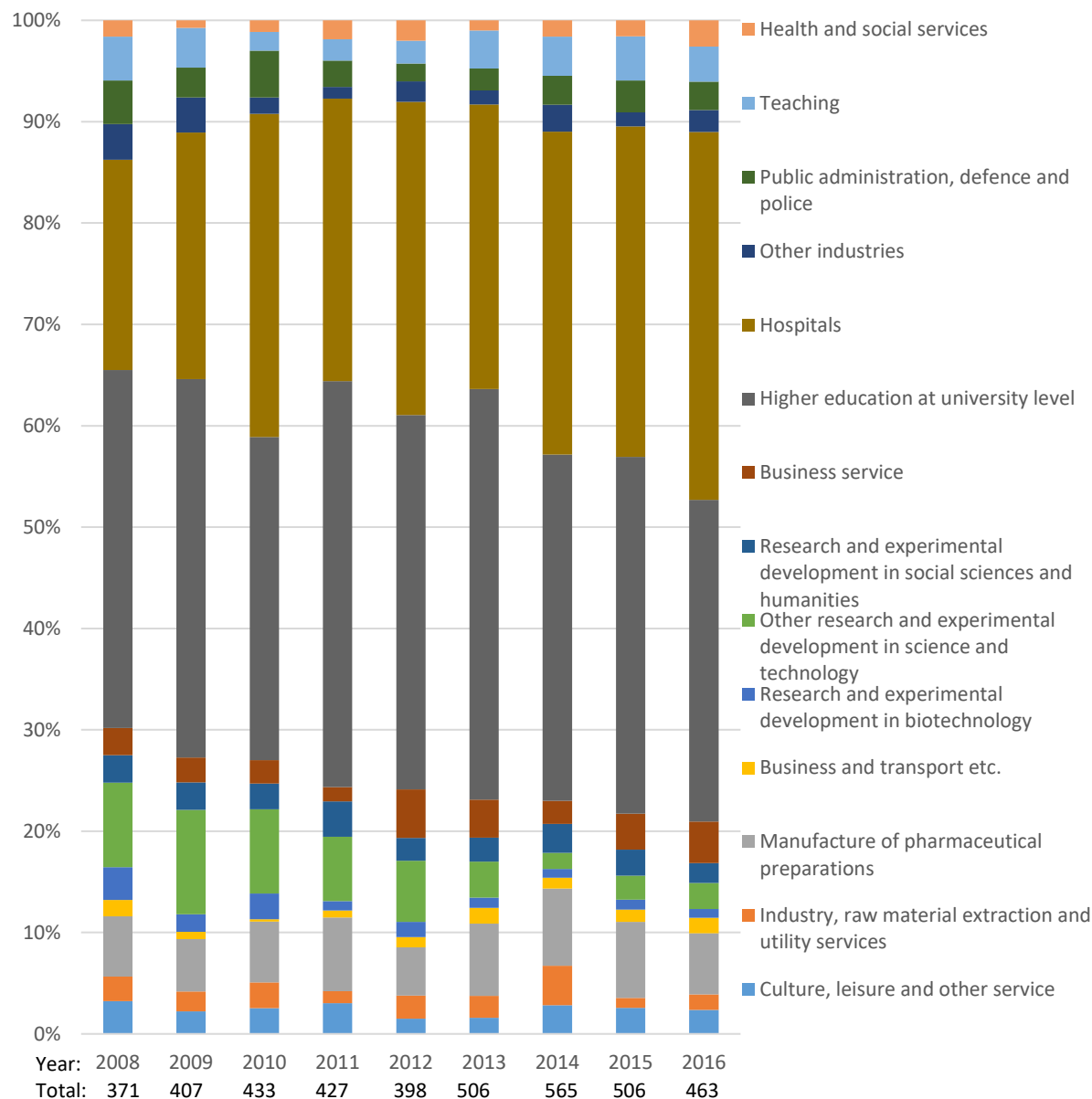


Source: Statistics Denmark, August 2018

1.4 Industry breakdown for UCPH PhD graduates' first job

In terms of industry breakdown among Danish PhD graduates from UCPH, the largest groups are “higher education at university level” (34%) and "hospitals "(28%)⁴.

Chart 8: Industry breakdown for Danish employees in their first job 2008-2016, percent

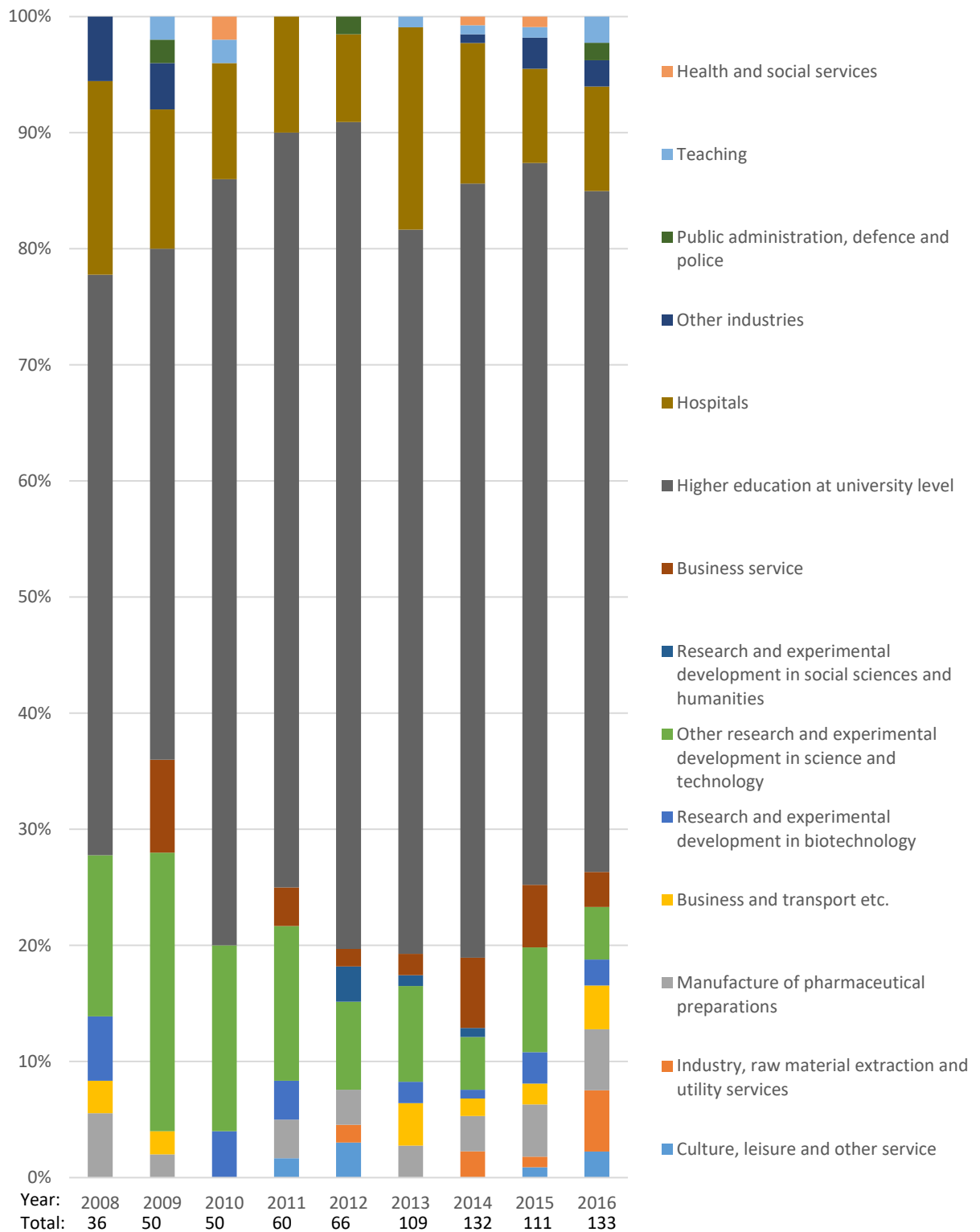


Source: Statistics Denmark, August 2018

⁴ Employees are distributed according to the industry classification Danish Industry Code 2007. The institutions do their own reporting to Statistics Denmark and decide themselves to which industries they belong.

Across 2008-2016, around 50% of the international graduates who are registered as employees found work within “higher education at university level.”

Chart 9: Industry breakdown for International employees in their first job 2008-2016, percent

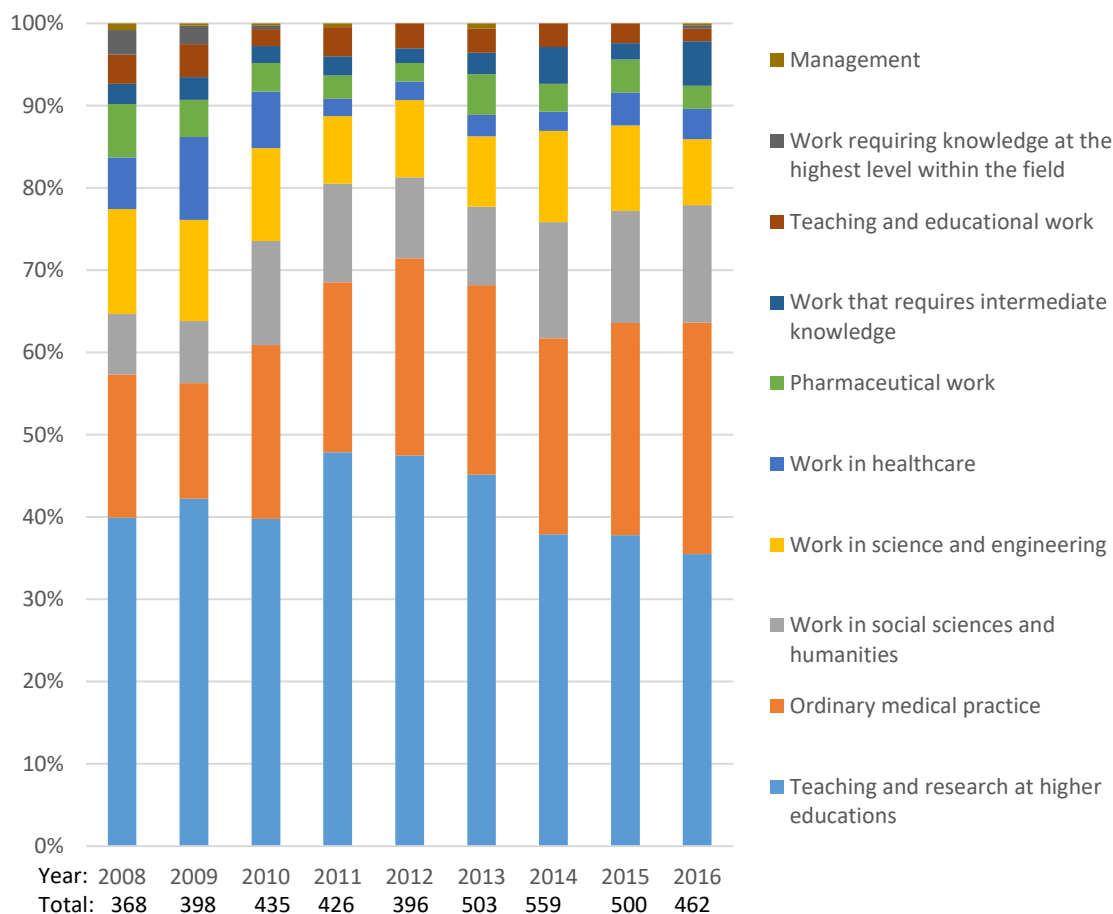


Source: Statistics Denmark, August 2018

1.5 Job functions performed by UCPH PhD graduates in their first job

In the period 2008-2016, an average 64% of the Danish PhD graduates were employed in teaching and research at higher education programmes and in general medical work⁵.

Chart 10: Jobfunctions for Danish employees in their first job 2008-2016, percent

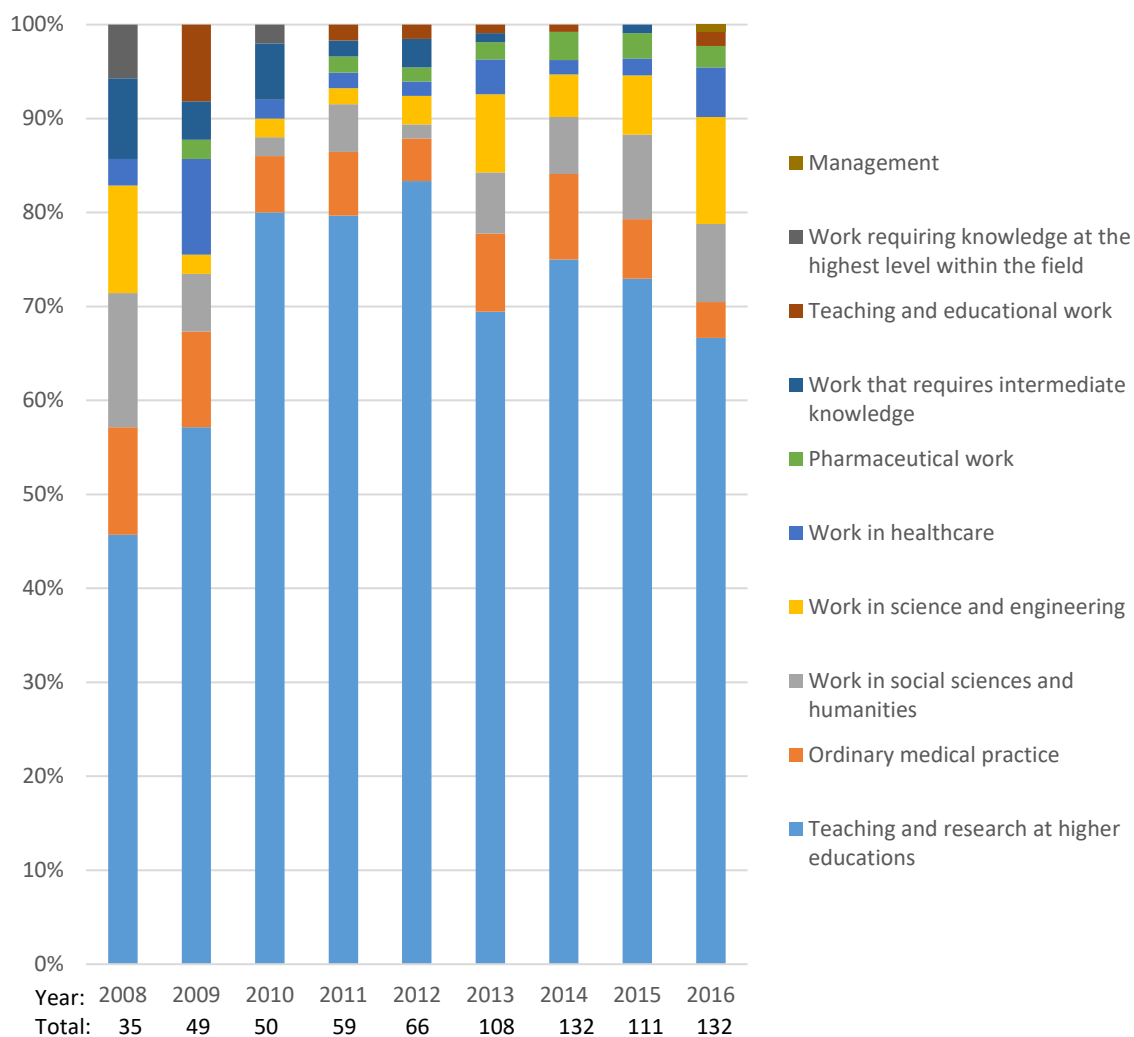


Source: Statistics Denmark, August 2018

⁵ Employees are distributed by the categories in the Danish version of the International Standard Classification of Occupations (DISCO-08). The employers report the job functions of their employees. The reason for the large proportion of "general medical work" is because SUND has the highest proportion of PhD graduates, and the majority of these graduates (32%) are within the group of "general medical work".

Chart 11: Jobfunctions for international employees in their first job 2008-2016, percent

In the period 2008-2016, an average 70% of the international PhD graduates registered as employees were occupied in teaching and research at higher education programmes.

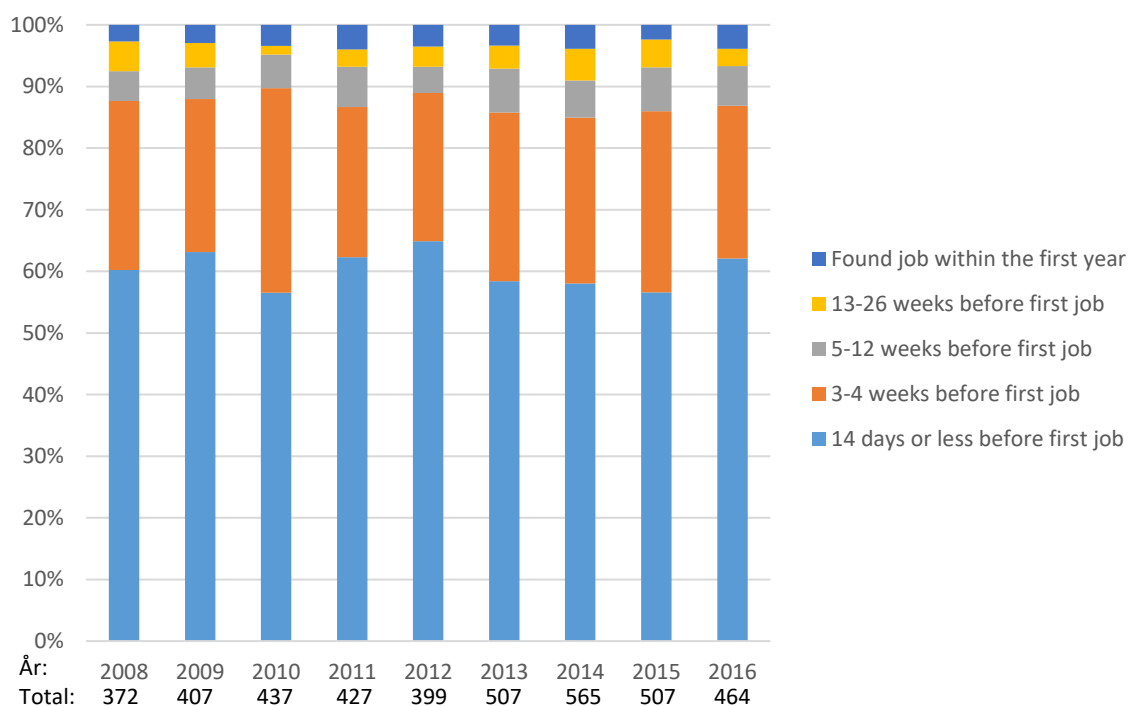


Source: Statistics Denmark, August 2018

1.6 Unemployment among UCPH PhD graduates 2008-2016

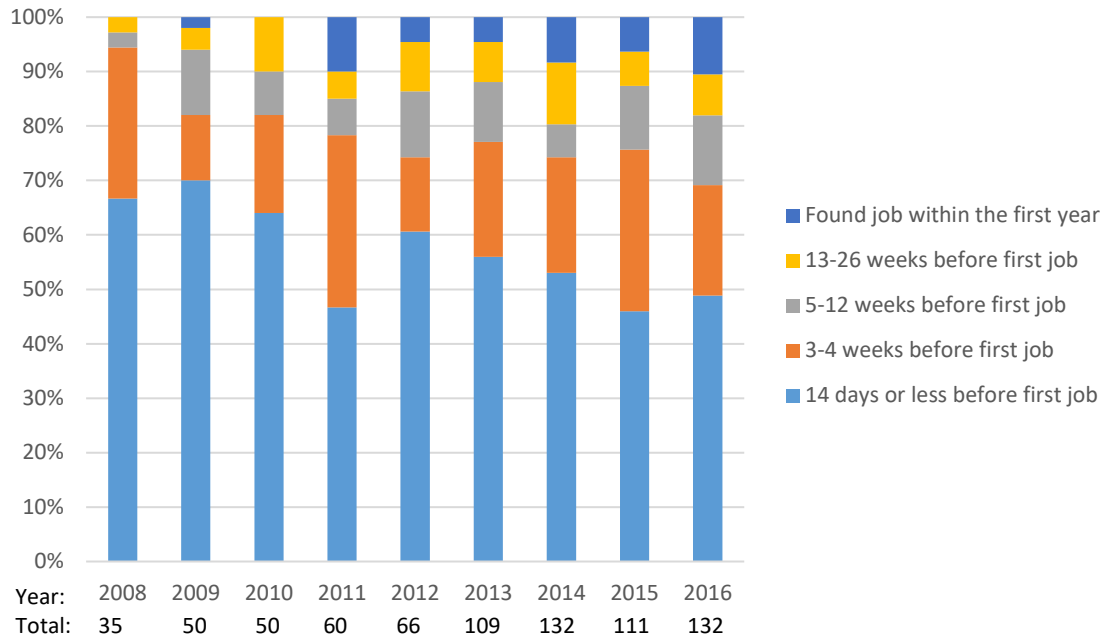
In 2016, 87% of Danish PhD graduates registered as employees found work within the first month of graduation. The same goes for 69% of the international PhD graduates registered as employees. After six months, the chart was 96% for the Danish employees and 89% for the international employees.

Chart 12: Unemployment among Danish employees 2008-2016, percent



Source: Statistics Denmark, August 2018

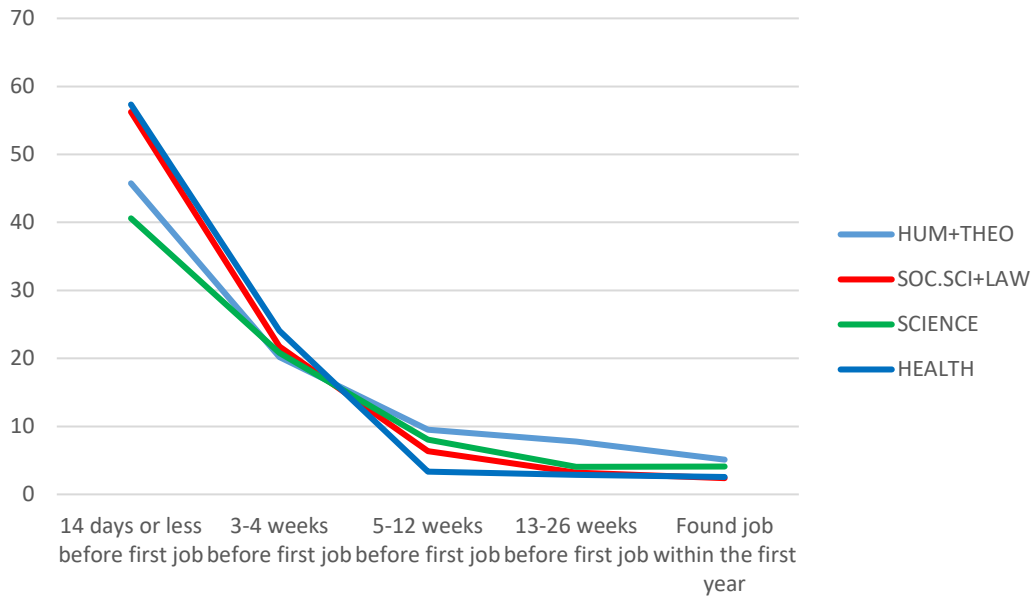
Chart 13: Unemployment among international graduates 2008-2016, percent



Source: Statistics Denmark, August 2018

If the period of unemployment is broken down by faculty rather than years, it turns out that graduates (Danish and international) from SUND and SOC.SCI + LAW generally found work a little sooner than graduates from SCIENCE and HUM + THEO, but generally the faculties followed the same trend.

Chart 14: Time before first employment by faculty for Danish and international graduates of 2008-2016, percent



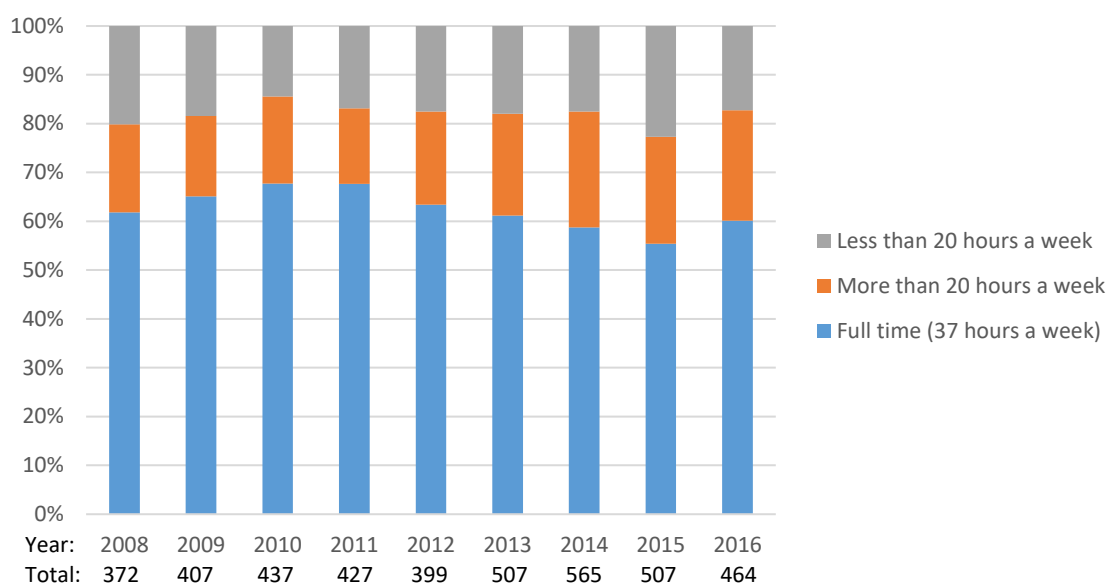
Source: Statistics Denmark, August 2018

1.7 Type of employment for UCPH PhD graduates 2008-2016

The data set shows how many hours a week graduates were employed in their first job, but does not show whether it was fixed-term or permanent employment.

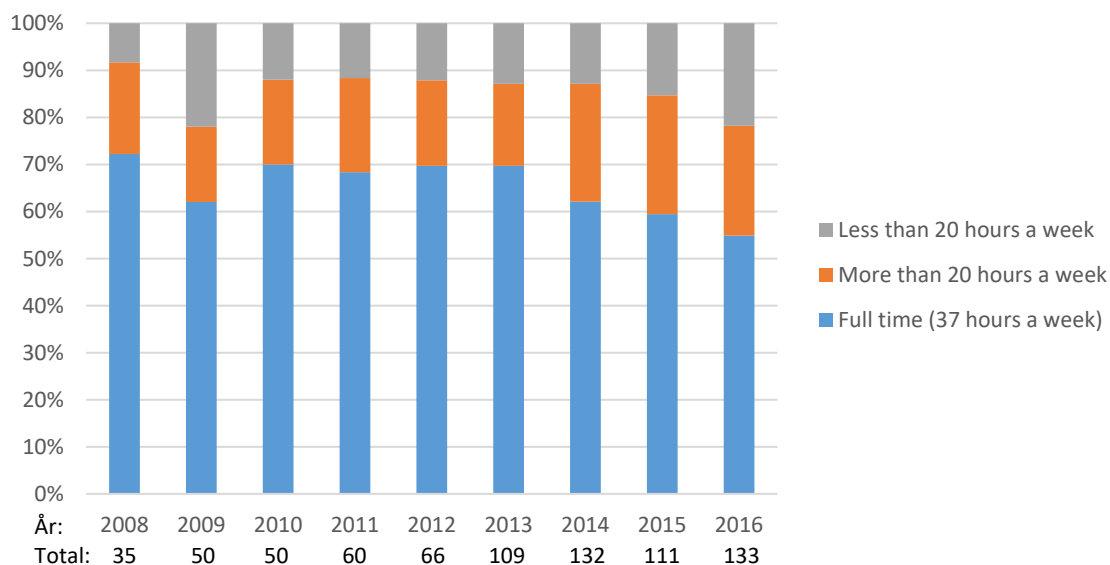
It must be kept in mind that this is the first job, and that part-time positions may be due to an association with the University, such as research assistant or assistant lecturer until a more permanent job opportunity arises. It should be noted that this tendency could also affect the relatively high number of graduates who found their first job at the University, see Charts 8 + 9.

Chart 15: Type of employment for Danish UCPH graduates: full-time or part-time



Source: Statistics Denmark, August 2018

Chart 16: Type of employment for international UCPH graduates: full-time or part-time



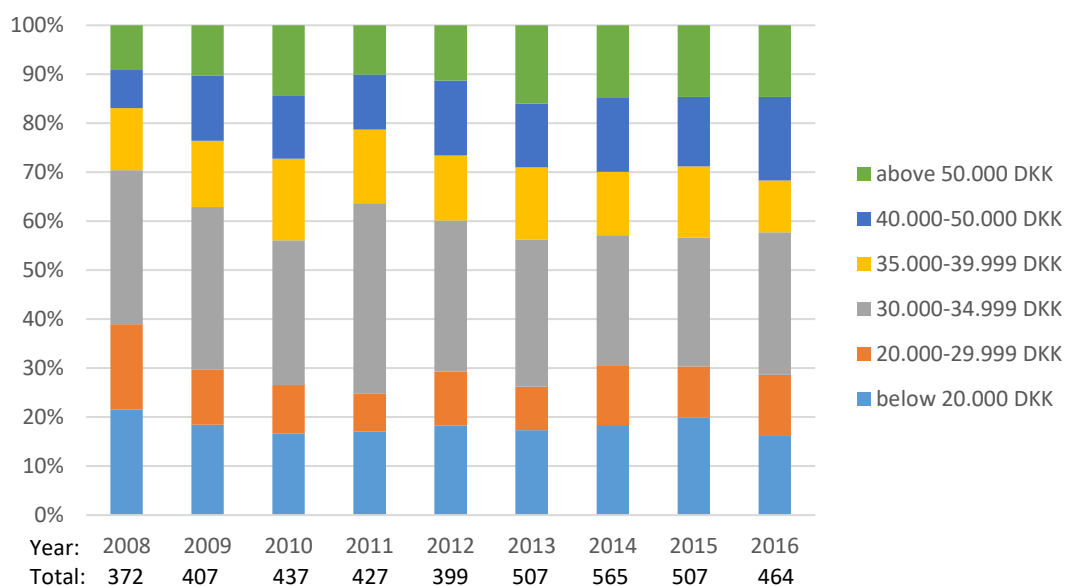
Source: Statistics Denmark, August 2018

1.8 Pay level for UCPH PhD graduates' first job

This survey has not extracted payroll data for graduates so a comparison is not possible. However, the think tank DEA has compared salaries among natural and health science PhD graduates in the private sector concluding that graduates within the first year of graduation are approximately 6% behind graduates with a corresponding work experience; but that five years later, they are 7% ahead of the same graduates (DEA, Job market after graduation for PhDs, December 2014).

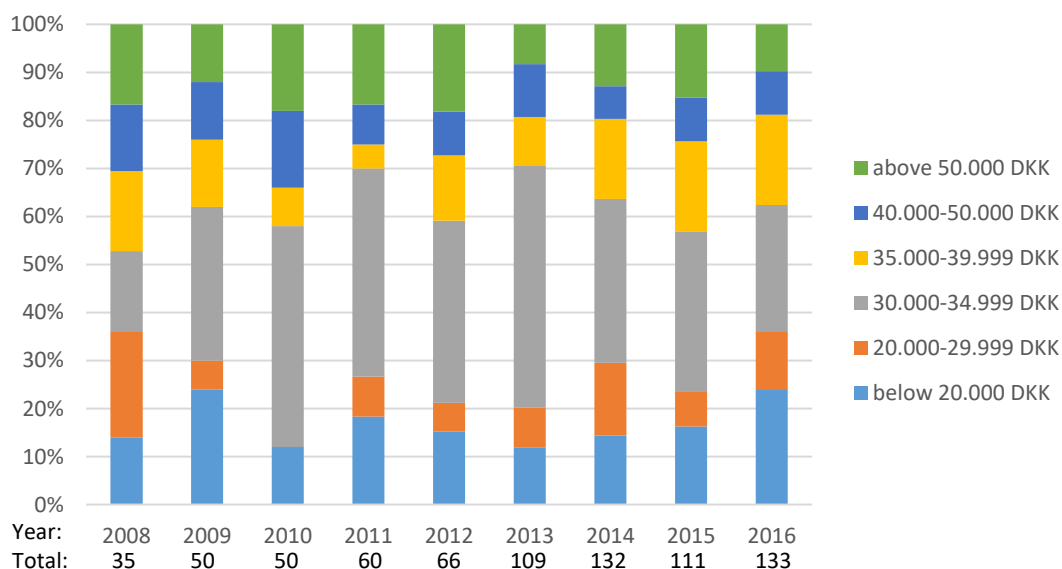
Looking at full-time graduates from the entire period, most of the Danish and international graduates were paid monthly salaries of DKK 30,000-35,000 (30% and 36%), respectively.

Chart 17: Wage differentials for full-time Danish employees, percent (ex. pension)



Source: Statistics Denmark, August 2018

Chart 18: Wage differentials for full-time international employees, percent (ex. pension)

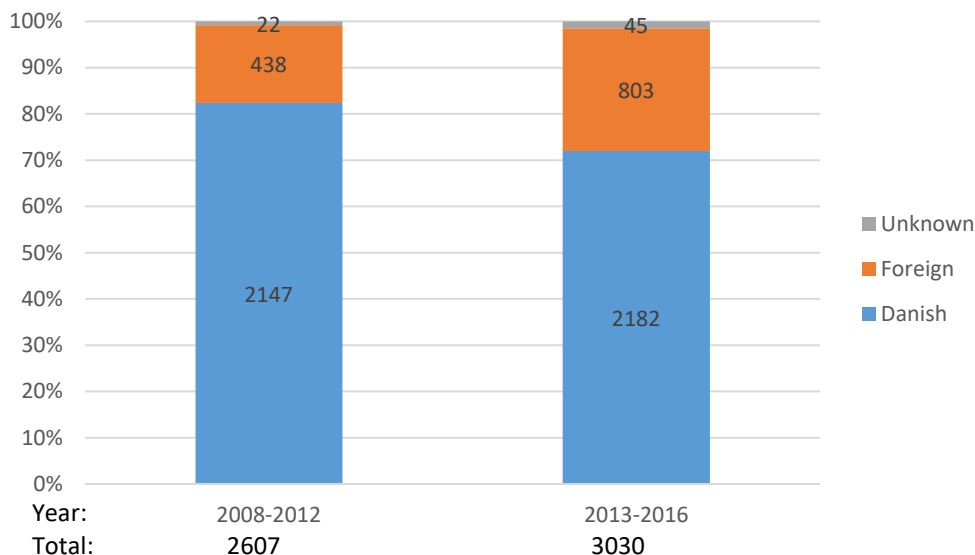


Source: Statistics Denmark, August 2018

1.9 UCPH PhD graduates outgoing and incoming

The proportion of international PhDs increased during the period, from 17% in the years 2008-2012 to 27% in the years 2013-2016.

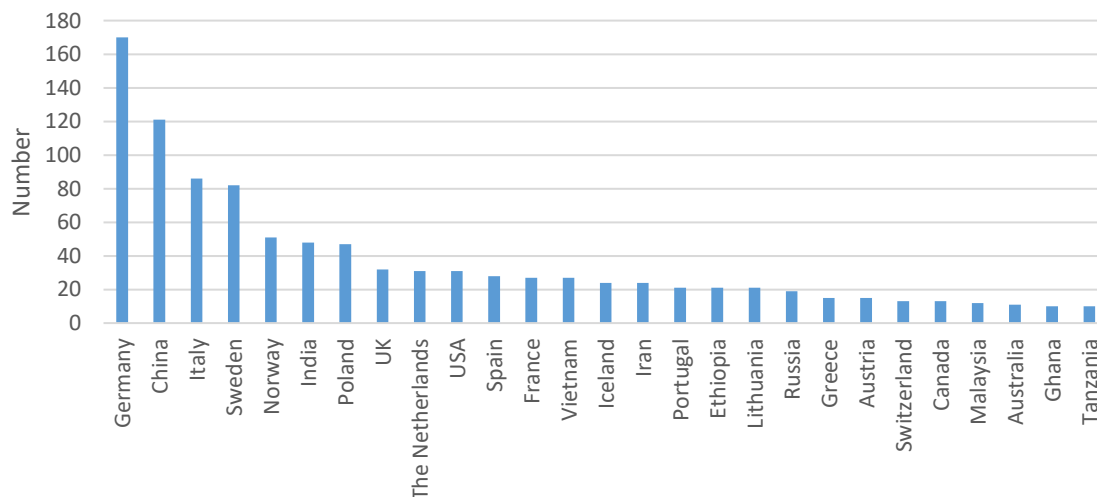
Chart 19: Nationality 2008-2016, percent



Source: Statistics Denmark, August 2018

The international PhDs held citizenships from 109 different countries, of which the most common were the following in the years 2008-2016.

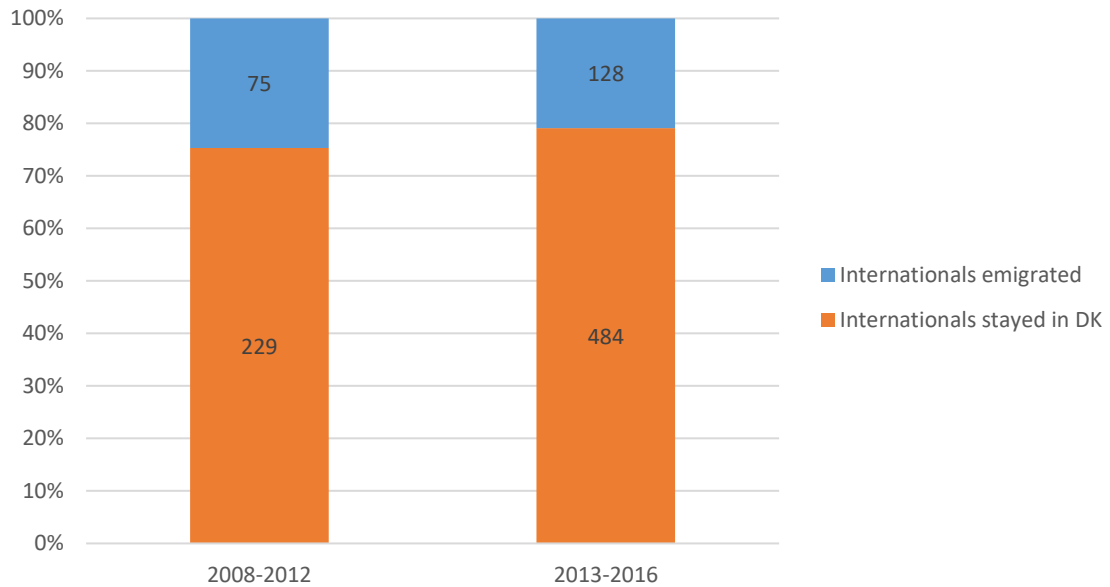
Chart 20: Nationality of international graduates 2008-2016, number



Source: Statistics Denmark, August 2018

In 2008-2012 25% of the international graduates emigrated from Denmark within the first year. In the 2013-2016 21% of the international graduates emigrated from Denmark within the first year.

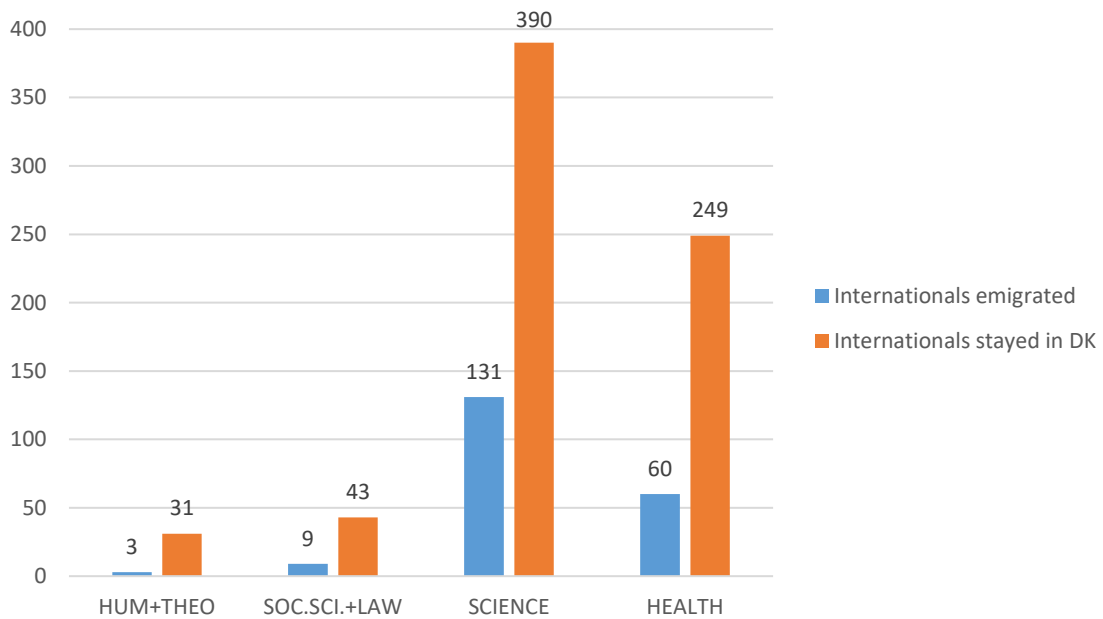
Chart 21: International PhD graduates' movements in the first year, (2008-2012+2013-2016), percent



Source: Statistics Denmark, January 2019

Chart 22 shows that the majority of UCPH graduates were from SCIENCE and HEALTH. During 2008-2016 about 25% of the graduates from SCIENCE and 19% from HEALTH emigrated within the first year after graduation.

Chart 22: International PhD graduates emigration by faculty (2008-2016), number



Source: Statistics Denmark, January 2019

Table 23: Percent of Danish and international PhD graduates (2008-2016), percent

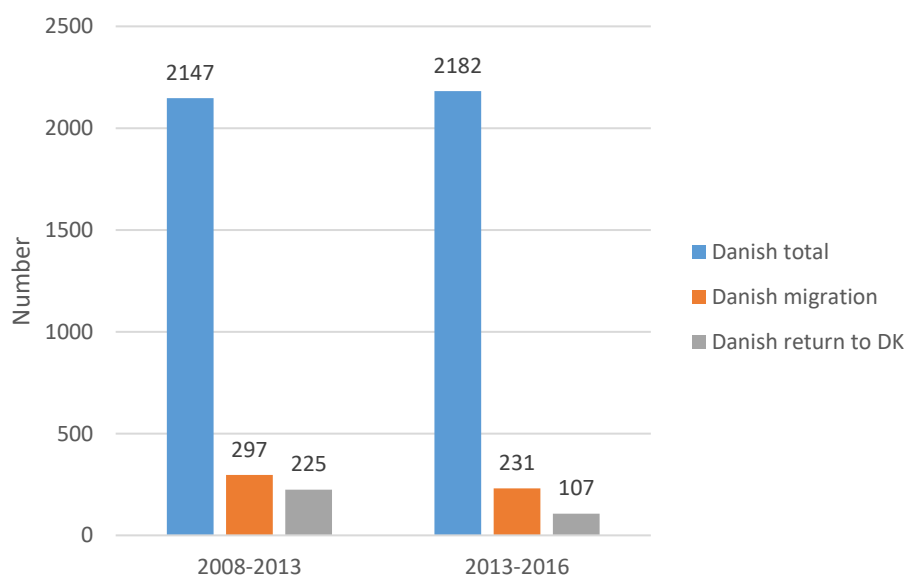
| | SCIENCE | HEALTH | HUM+THEO | SOC.SCI+LAW |
|----------------------|-------------|-------------|-------------|-------------|
| Danmark | 61% | 85% | 87% | 84% |
| International | 36% | 15% | 13% | 16% |
| Not stated | 2% | 1% | 0% | 0% |
| Total | 100% | 100% | 100% | 100% |

Source: Statistics Denmark, August 2018

1.10 Danish PhDs' international mobility

For the entire period of 2008-2016, an average 12% of the Danish PhDs went abroad within the first year of graduation. 55% of this 12% returned to Denmark within the first year of graduation.

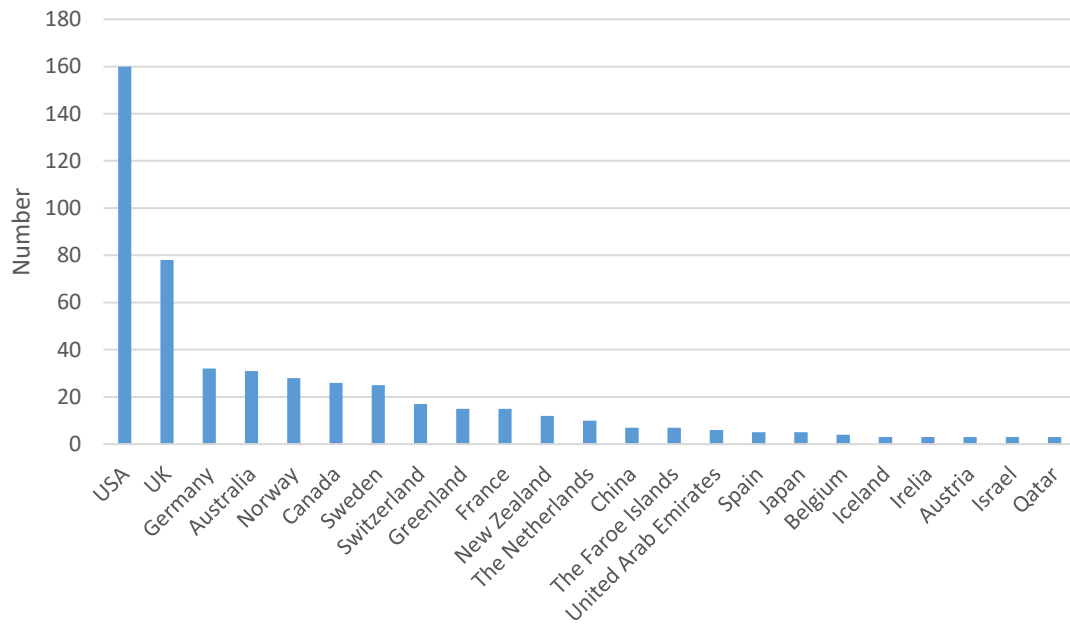
Chart 24: Danish PhDs' international mobility



Source: Statistics Denmark, August 2018

The following countries were the most frequent destinations for outgoing PhDs from UCPH holding Danish citizenship.

Chart 25: Most frequent destinations for outgoing PhDs from UCPH holding Danish citizenship (2008-2016)



Source: Statistics Denmark, August 2018

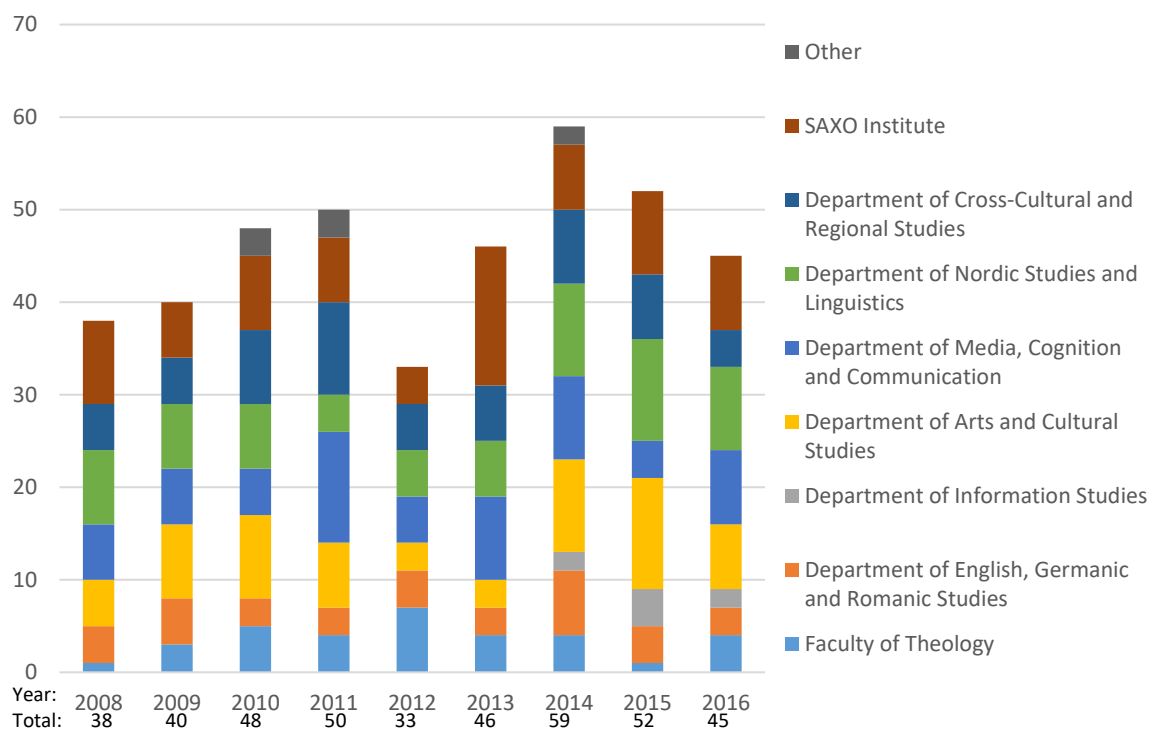
2 Faculty of Humanities and Faculty of Theology

The following chapter addresses data from the Faculty of Humanities (HUM) and the Faculty of Theology (THEO). THEO has been merged with HUM to ensure anonymity of the individual graduates and charts are only shown separately along with HUM's departments in stating the numbers of graduates.

Explanations to help interpret individual charts are available in the first chapter on the University of Copenhagen.

2.1 PhD graduates from HUM and THEO 2008-2016:

Chart 26: PhD graduates across HUM's departments and THEO



Source: Statistics Denmark, August 2018

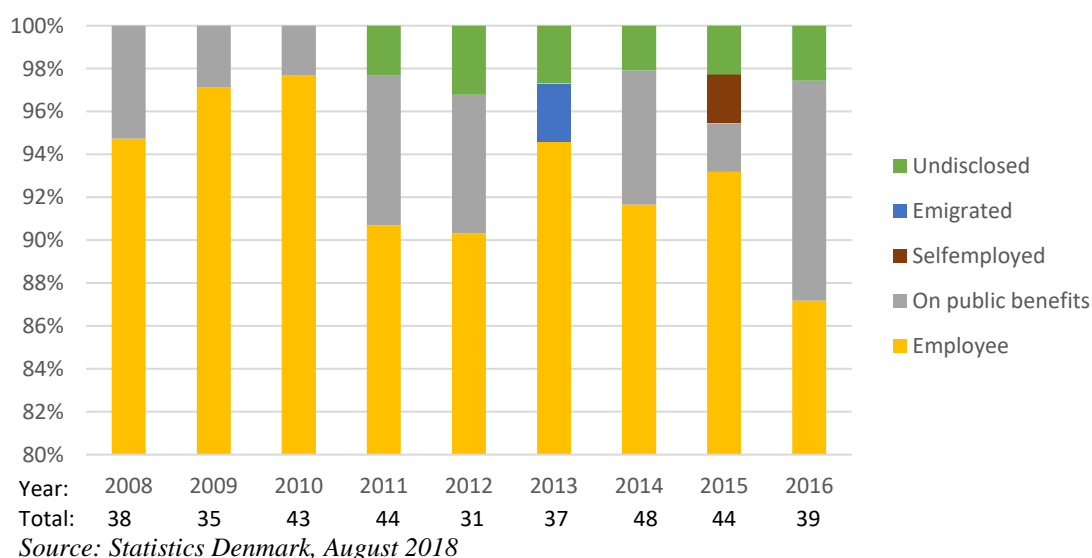
Key figures behind Chart 26: PhD graduates from HUM and THEO 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Faculty of Theology | 1 | 3 | 5 | 4 | 7 | 4 | 4 | 1 | 4 | 33 |
| Department of English, Germanic and Romanic Studies | 4 | 5 | 3 | 3 | 4 | 3 | 7 | 4 | 3 | 36 |
| Department of Information Studies | | | | | | | 2 | 4 | 2 | |
| Department of Arts and Cultural Studies | 5 | 8 | 9 | 7 | 3 | 3 | 10 | 12 | 7 | 64 |
| Department of Media, Cognition and Communication | 6 | 6 | 5 | 12 | 5 | 9 | 9 | 4 | 8 | 64 |
| Department of Nordic Studies and Linguistics | 8 | 7 | 7 | 4 | 5 | 6 | 10 | 11 | 9 | 67 |
| Department of Cross-Cultural and Regional Studies | 5 | 5 | 8 | 10 | 5 | 6 | 8 | 7 | 4 | 58 |
| SAXO Institute | 9 | 6 | 8 | 7 | 4 | 15 | 7 | 9 | 8 | 73 |
| Other | | | 3 | 3 | | | 2 | | | 8 |
| Total | 38 | 40 | 48 | 50 | 33 | 46 | 59 | 52 | 45 | 411 |

Source: Statistics Denmark, August 2018

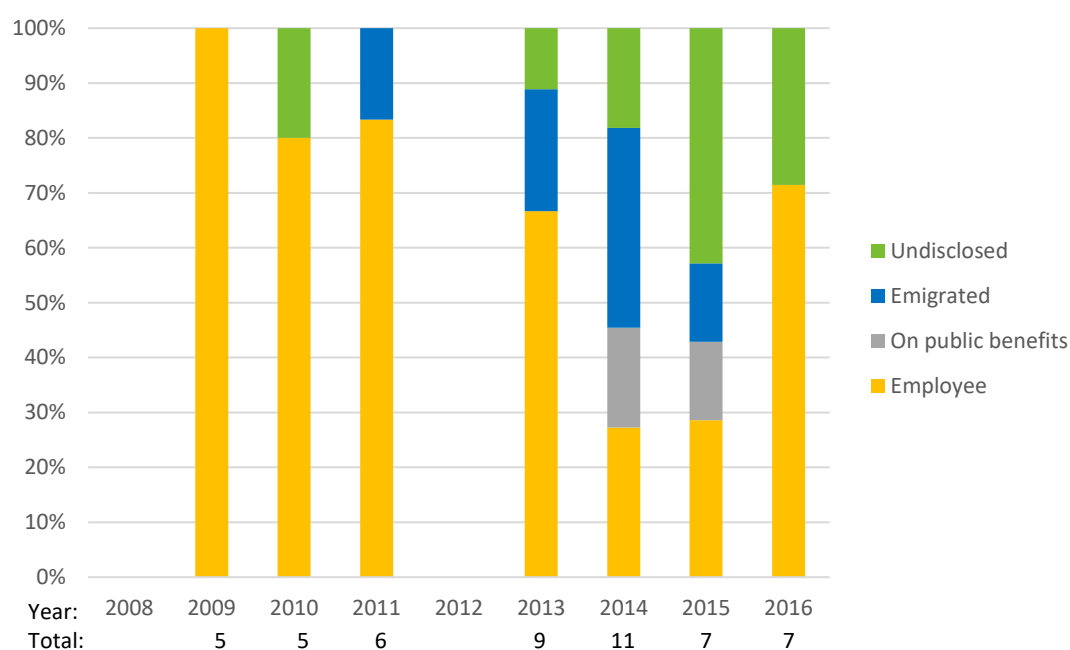
2.2 Employment rate for HUM and THEO PhD graduates

Chart 27: Distribution of all Danish PhD graduates from HUM and THEO 2008-2016



Source: Statistics Denmark, August 2018

Chart 28: Distribution of all international PhD graduates from HUM and THEO 2008-2016



Source: Statistics Denmark, August 2018

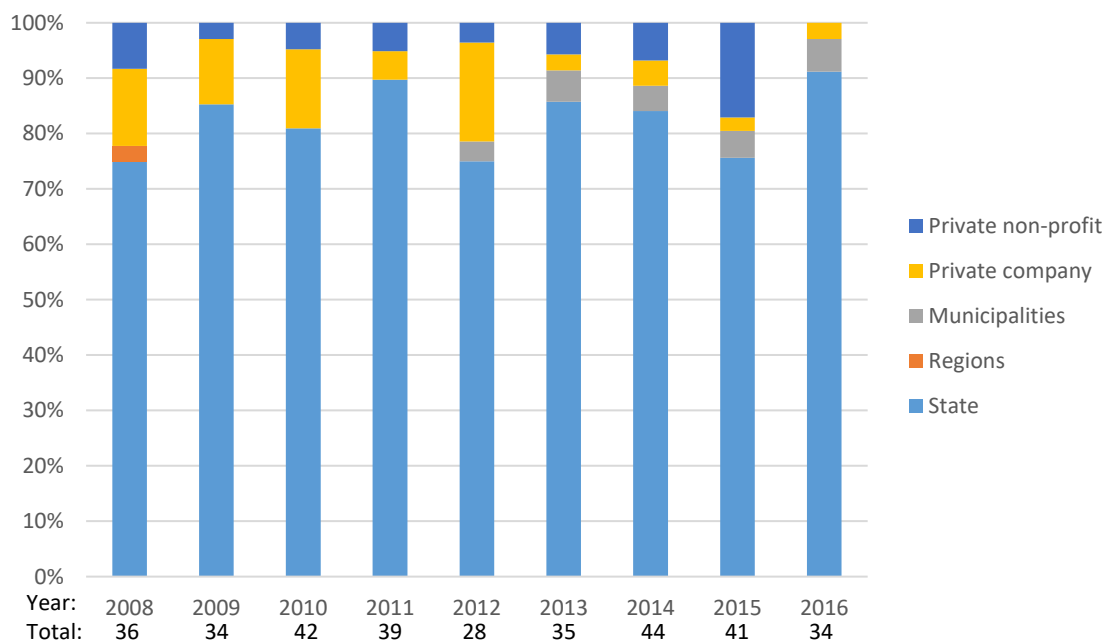
Key figures behind Chart 27+28: Distribution of all PhD graduates from HUM and THEO 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| <i>Danish</i> | | | | | | | | | | |
| Employee | 36 | 34 | 42 | 39 | 28 | 35 | 44 | 41 | 34 | 333 |
| On public support | 2 | 1 | 1 | 3 | 2 | | 3 | 1 | 4 | 17 |
| Selfemployed | | | | | | | | 1 | | 1 |
| Emigrated | | | | | | 1 | | | | 1 |
| Undisclosed | | | | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| <i>International</i> | | | | | | | | | | 0 |
| Employee | | 5 | 4 | 5 | | 6 | 3 | 2 | 5 | 30 |
| On public support | | | | | | | 2 | 1 | | 3 |
| Emigrated | | | | 1 | | 2 | 4 | 1 | | 8 |
| Undisclosed | | | 1 | | | 1 | 2 | 3 | 2 | 9 |
| Total | 38 | 40 | 48 | 49 | 31 | 46 | 59 | 51 | 46 | 408 |

Source: Statistics Denmark, August 2018

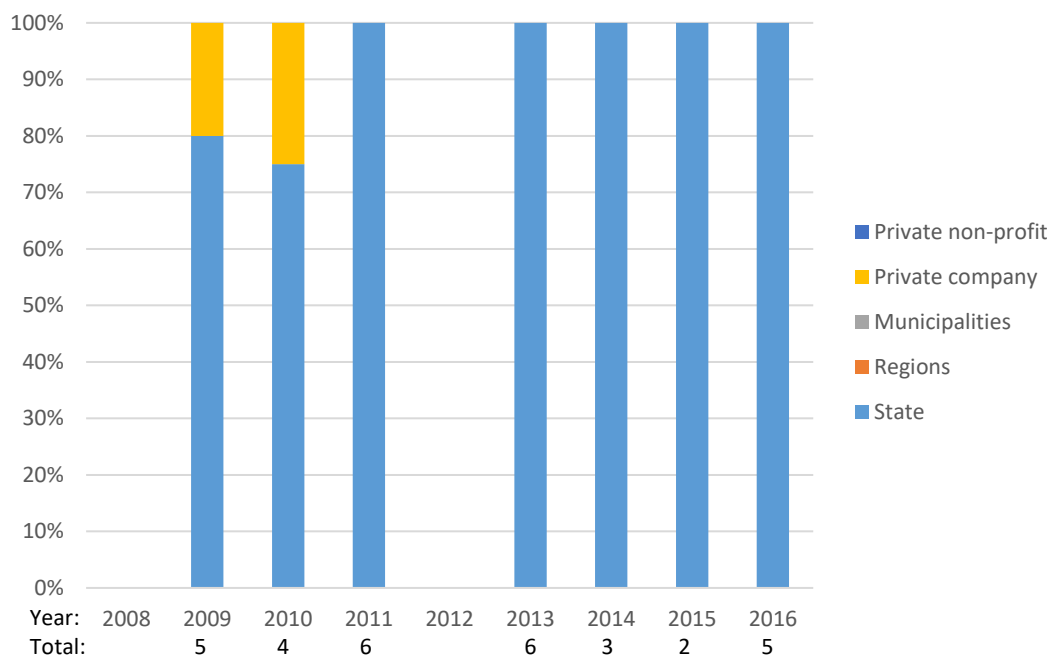
2.3 Sector distribution for HUM and THEO's PhD graduates - first employment

Chart 29: Sector distribution for Danish HUM and THEO's PhD graduates - first employment



Source: Statistics Denmark, August 2018

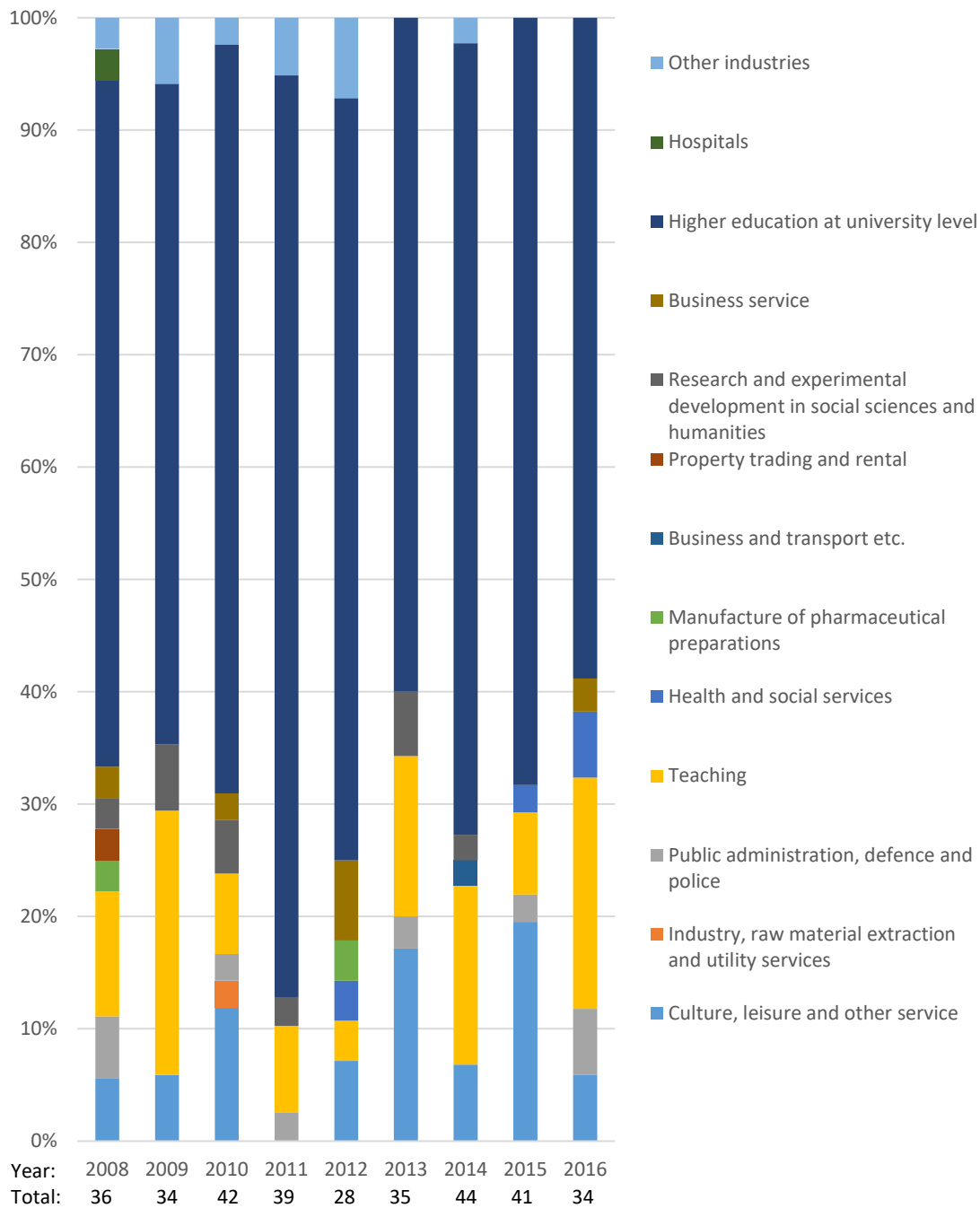
Chart 30: Sector distribution for international HUM and THEO's PhD graduates - first employment



Source: Statistics Denmark, August 2018

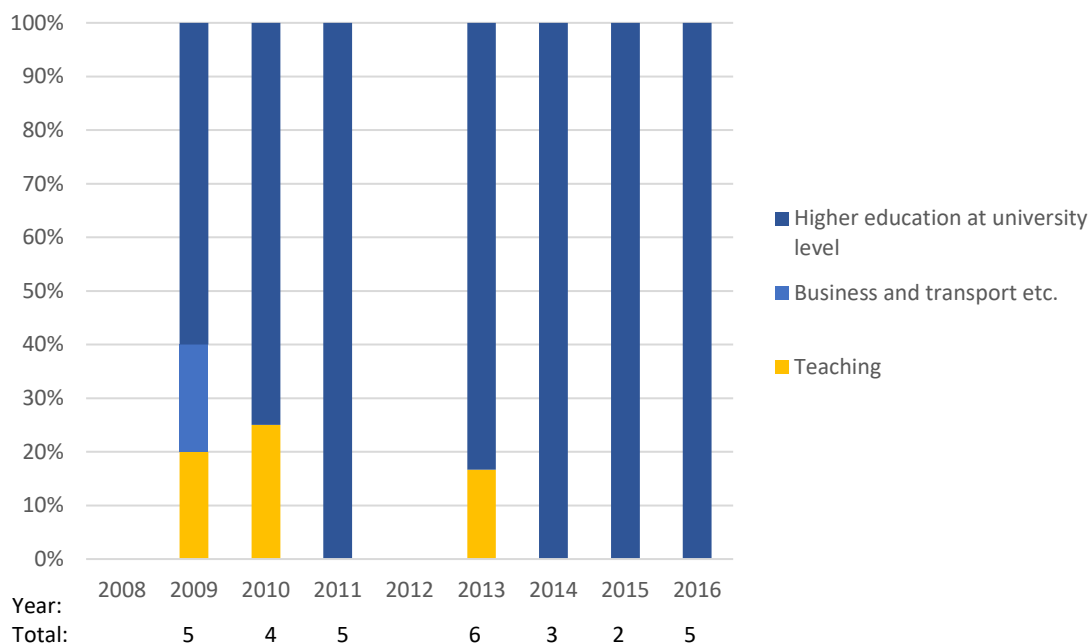
2.4 Industry branch distribution for HUM and THEO employees - first employment

Chart 31: Industry branch distribution for Danish HUM and THEO employees - first employment



Source: Statistics Denmark, August 2018

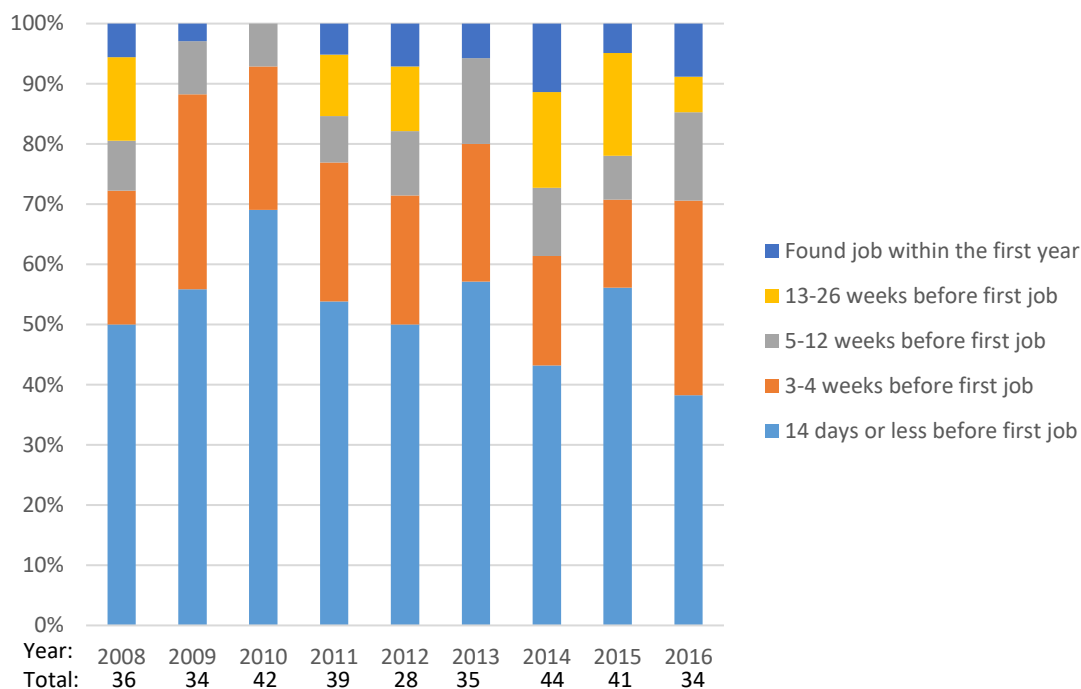
Chart 32: Industry branch distribution for international HUM and THEO employees - first employment



Source: Statistics Denmark, August 2018

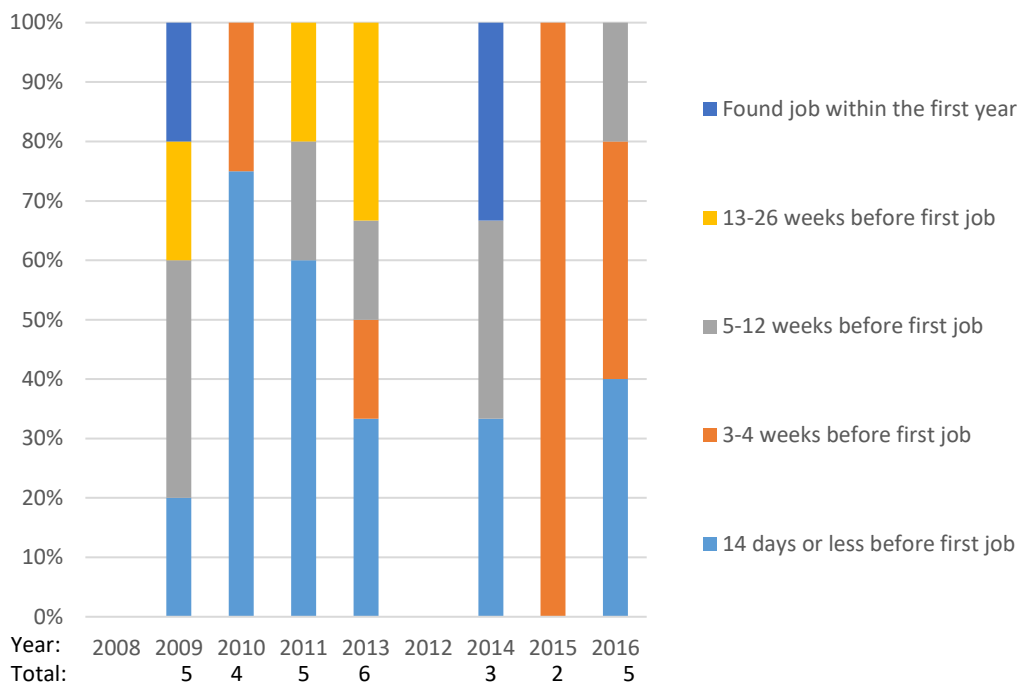
2.5 Time before first employment for HUM and THEO PhD graduates 2008-2016

Chart 33: Time before first employment for Danish HUM and THEO employees 2008-2016



Source: Statistics Denmark, August 2018

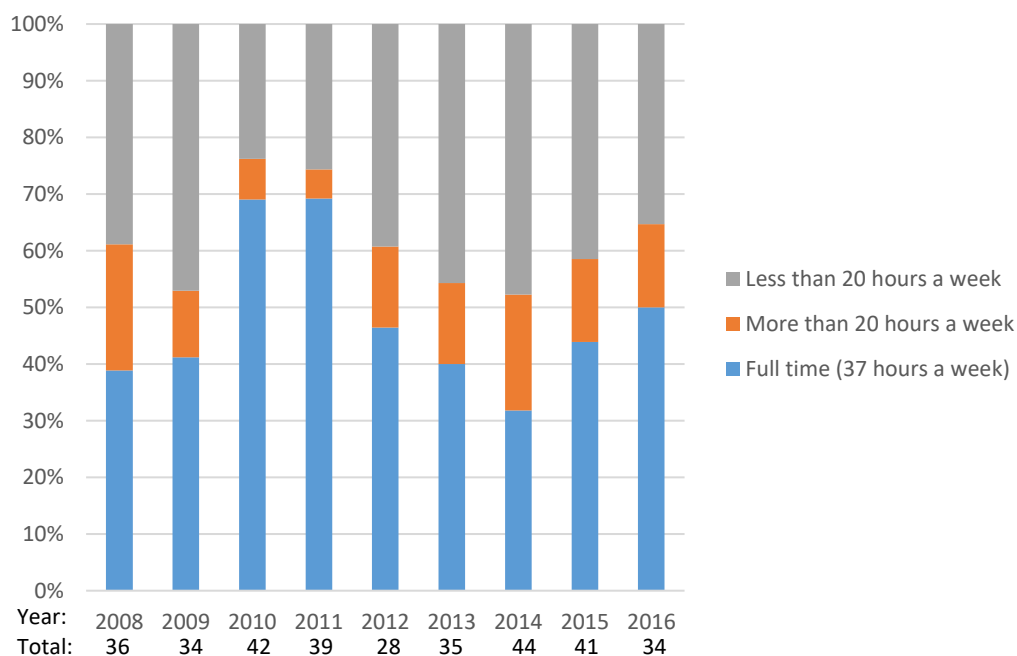
Chart 34: Time before first employment for international HUM and THEO employees 2008-2016



Source: Statistics Denmark, August 2018

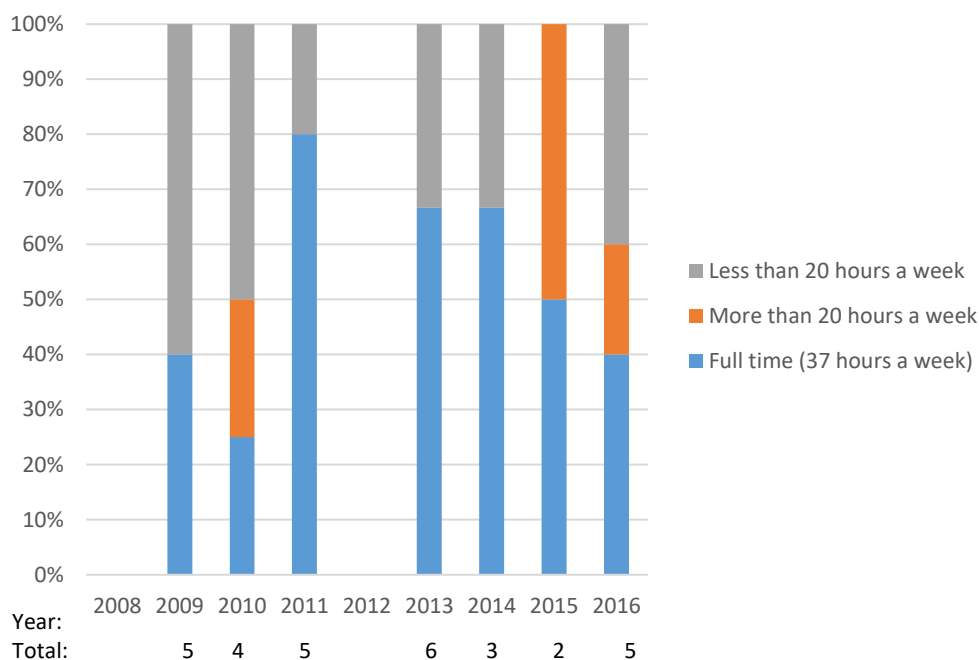
2.6 Type of employment for HUM and THEO PhD graduates 2008-2016

Chart 35: Full or part-time employment for Danish HUM and THEO - first employment



Source: Statistics Denmark, August 2018

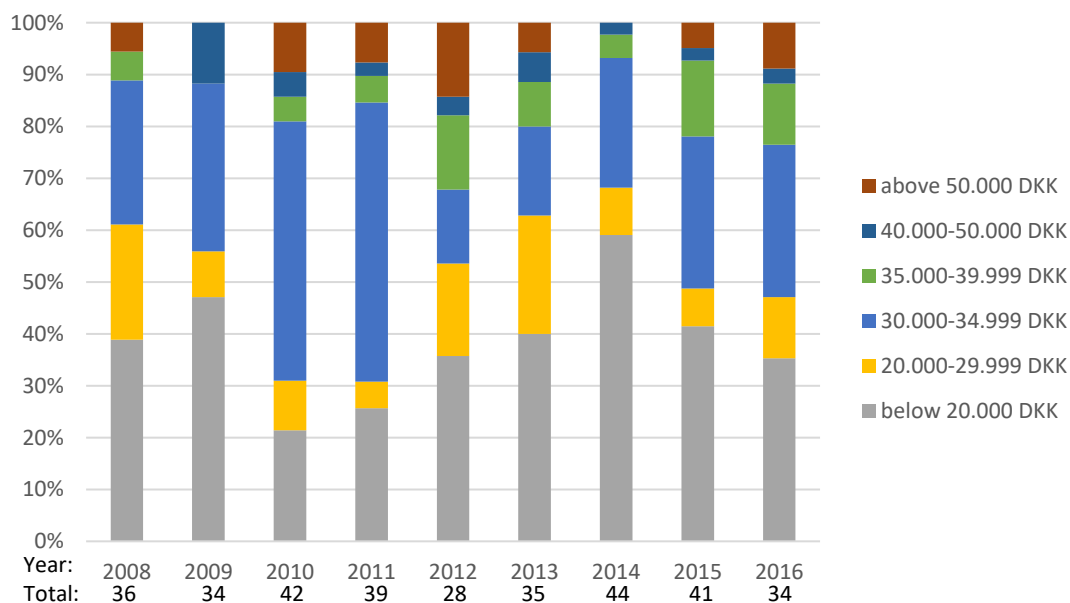
Chart 36: Full or part-time employment for international HUM and THEO - first employment



Source: Statistics Denmark, August 2018

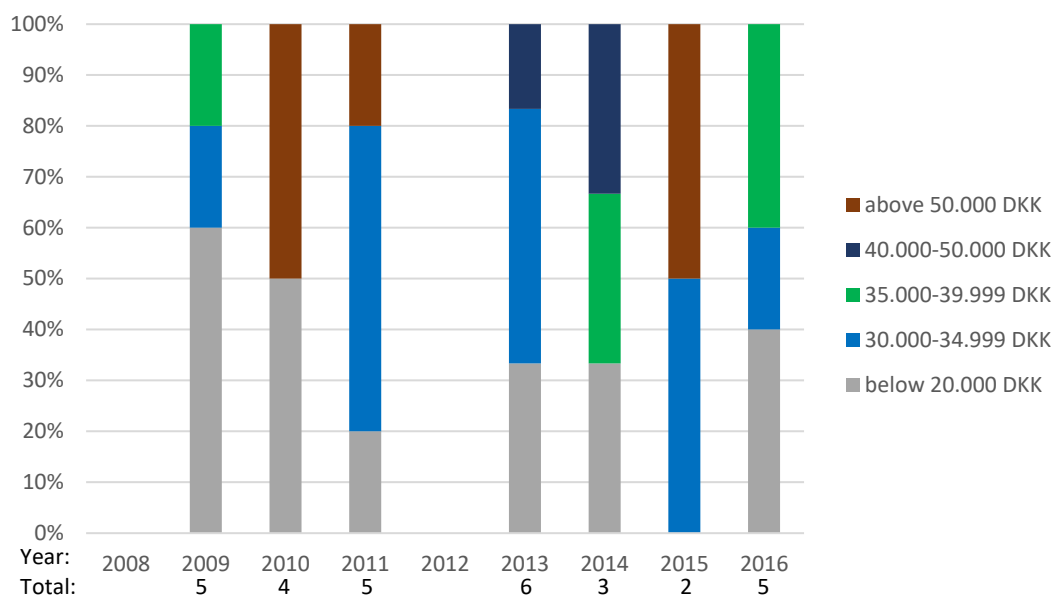
2.7 Wage differentials for HUM and THEO's PhD graduates- first employment

Chart 37: Wage differentials for Danish full-time employees - first employment



Source: Statistics Denmark, August 2018

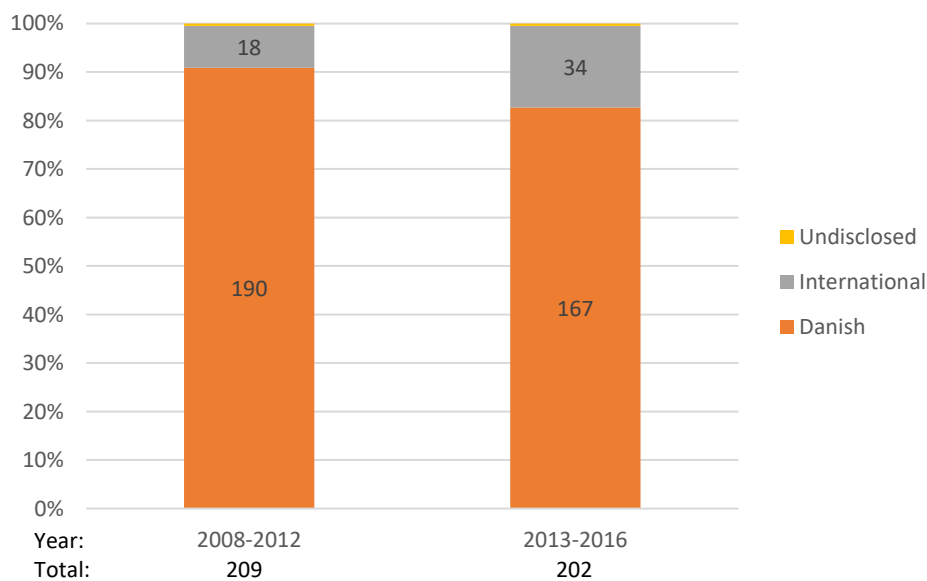
Chart 38: Wage differentials for international full-time employees - first employment



Source: Statistics Denmark, August 2018

2.8 PhDs with Danish and international nationality

Chart 39: Percentage of PhDs from HUM and THEO with Danish and international nationality



Source: Statistics Denmark, August 2018

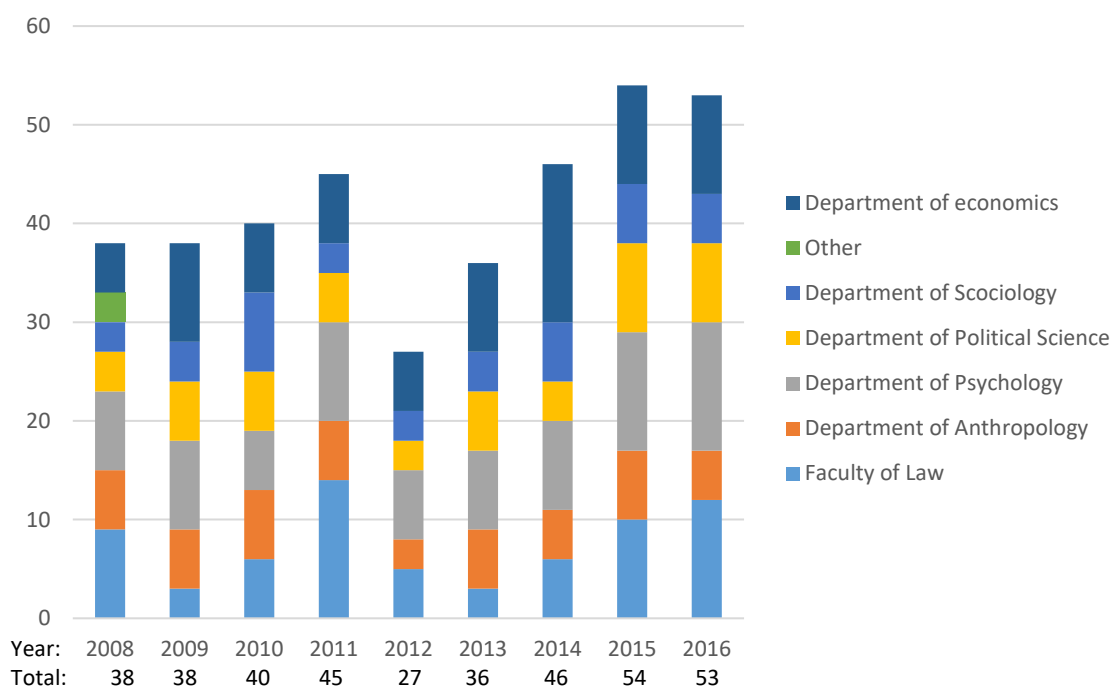
3 Faculty of Social Sciences

The following chapter addresses data from the Faculty of Social Sciences (SOC.SCI), incl. the Faculty of Law (LAW). LAW has been merged with SOC.SCI for reasons of anonymity but are shown separately along with SOC.SCI's departments in stating the numbers of graduates.

Explanations to help interpret individual charts are available in the first chapter on the University of Copenhagen.

3.1 PhD graduates from SOC.SCI and LAW 2008-2016:

Chart 40: PhD graduates across SOC.SCI departments and Law 2008-2016



Source: Statistics Denmark, August 2018

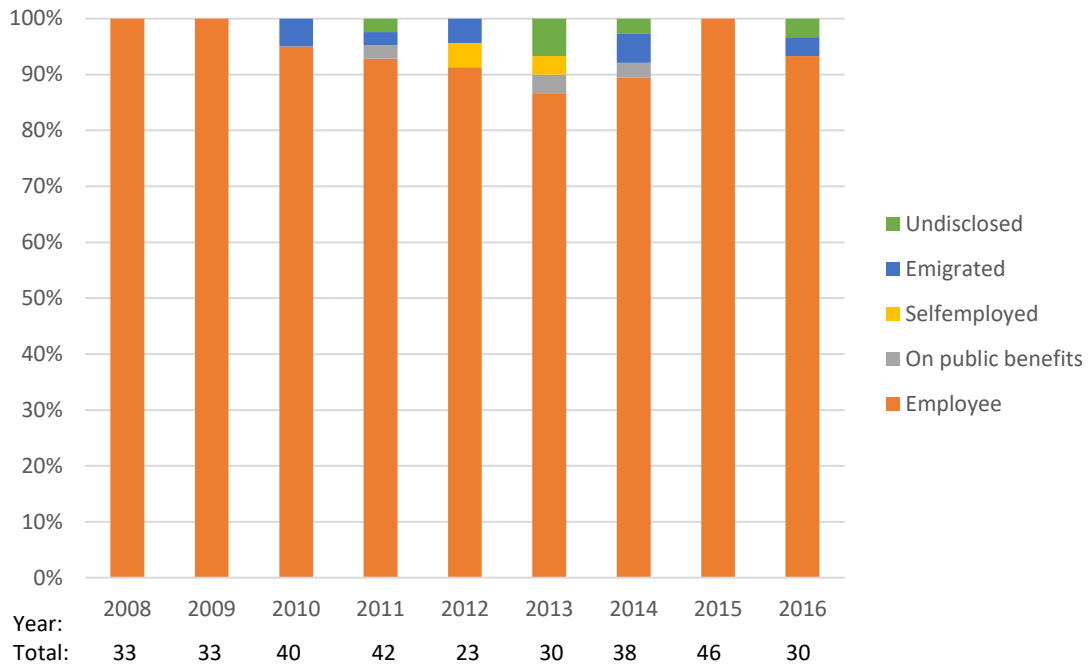
Key figures behind chart 40: Number of degrees awarded. SOC.SCI departments and the Faculty of Law 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Faculty of Law | 9 | 3 | 6 | 14 | 5 | 3 | 6 | 10 | 12 | 68 |
| Department of Anthropology | 6 | 6 | 7 | 6 | 3 | 6 | 5 | 7 | 5 | 51 |
| Department of Psychology | 8 | 9 | 6 | 10 | 7 | 8 | 9 | 12 | 13 | 82 |
| Department of Political Science | 4 | 6 | 6 | 5 | 3 | 6 | 4 | 9 | 8 | 51 |
| Department of Sociology | 3 | 4 | 8 | 3 | 3 | 4 | 6 | 6 | 5 | 42 |
| Other | 3 | | | | | | | | | 3 |
| Department of Economics | 5 | 10 | 7 | 7 | 6 | 9 | 16 | 10 | 10 | 80 |
| Total | 38 | 38 | 40 | 45 | 27 | 36 | 46 | 54 | 53 | 377 |

Source: Statistics Denmark, August 2018

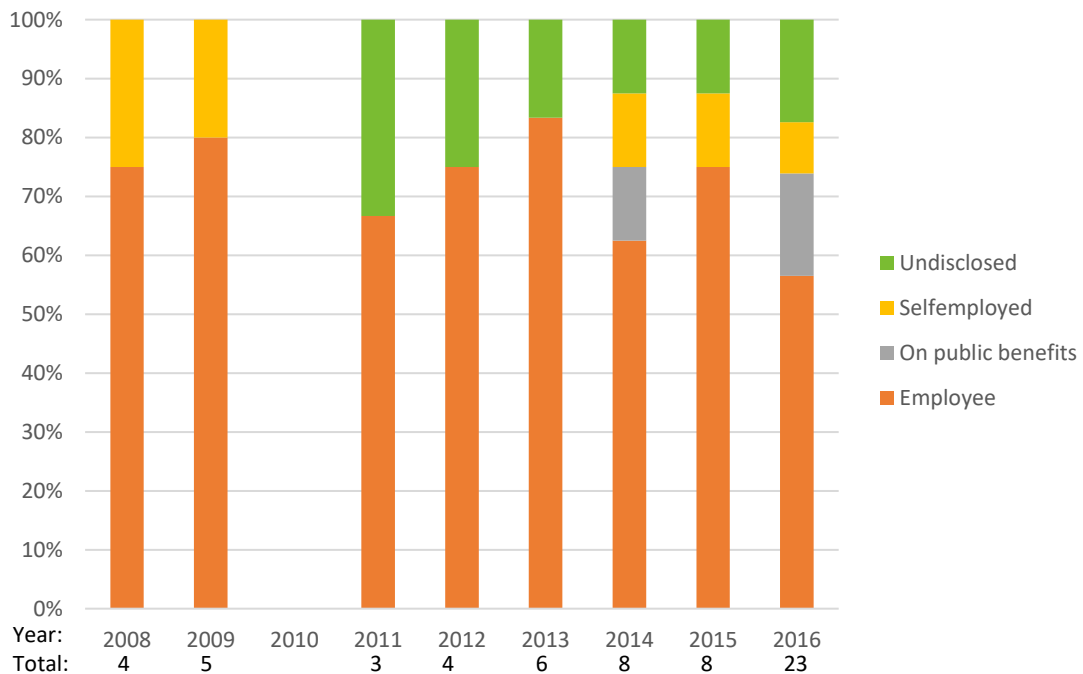
3.2 Employment rate for SOC.SCI and LAW PhD graduates

Chart 41: Distribution of Danish PhD graduates from SOC.SCI and LAW 2008-2016



Source: Statistics Denmark, August 2018

Chart 42: Distribution of international PhD graduates from SOC.SCI and LAW 2008-2016



Source: Statistics Denmark, August 2018

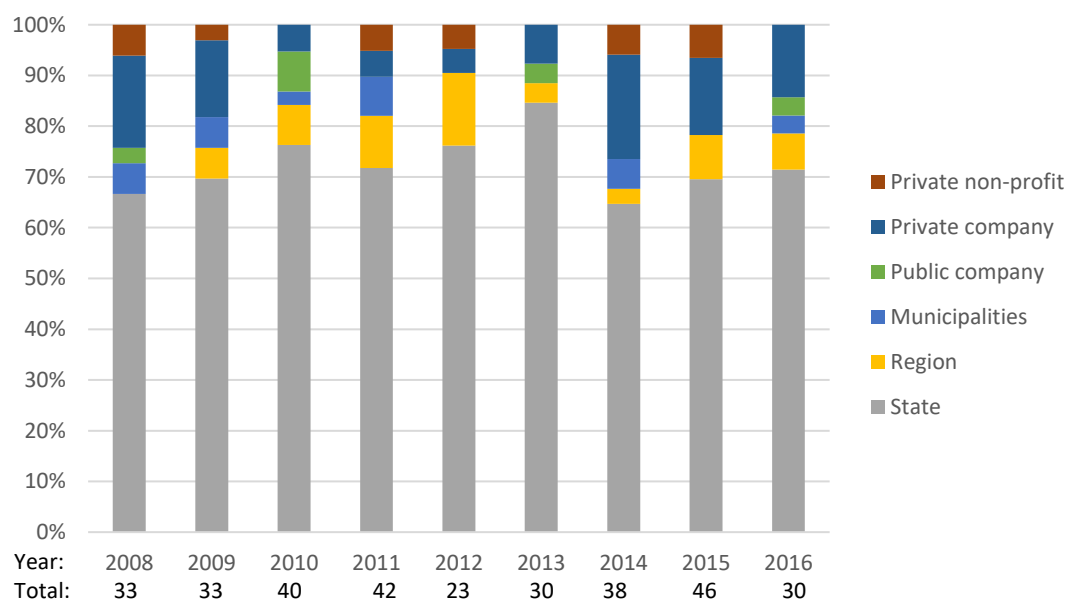
Key figures behind chart 41+42: Distribution of Danish and international PhD graduates from SOC.SCI and LAW 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| <i>Danish</i> | | | | | | | | | | |
| Employee | 33 | 33 | 38 | 39 | 21 | 26 | 34 | 46 | 28 | 298 |
| On public support | | | | 1 | | 1 | 1 | | | 3 |
| Selfemployed | | | | | 1 | 1 | | | | 2 |
| Emigrated | | | 2 | 1 | 1 | | 2 | | 1 | 7 |
| Undisclosed | | | | 1 | | 2 | 1 | | 1 | 5 |
| <i>International</i> | | | | | | | | | | |
| Employee | 3 | 4 | | 2 | 3 | 5 | 5 | 6 | 13 | 41 |
| On public support | | | | | | | 1 | | 4 | 5 |
| Selfemployed | 1 | 1 | | | | | 1 | 1 | 2 | 6 |
| Undisclosed | | | | 1 | 1 | 1 | 1 | 1 | 4 | 9 |
| Total | 37 | 38 | 40 | 45 | 27 | 36 | 46 | 54 | 53 | 376 |

Source: Statistics Denmark, August 2018

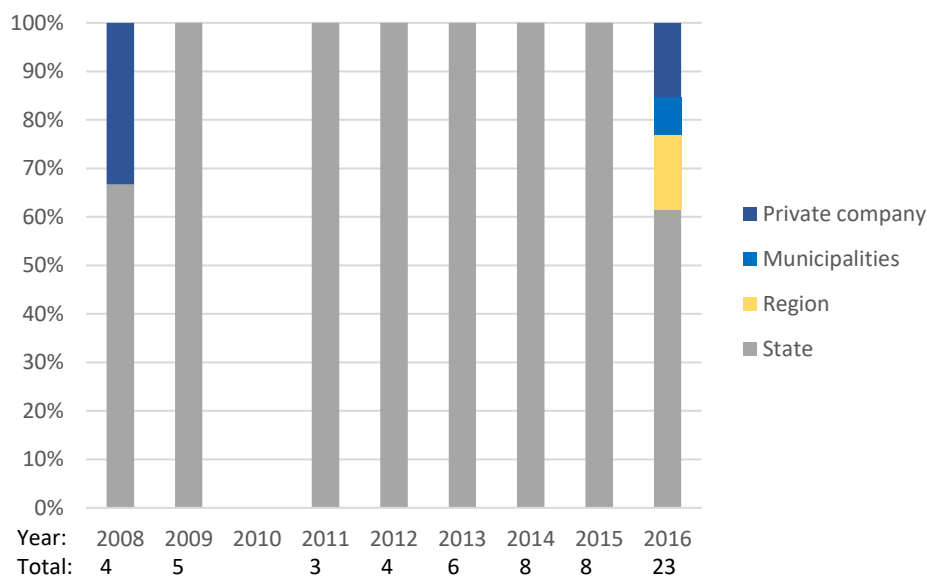
3.3 Sector distribution for SOC.SCI and LAW

Chart 43: Sector distribution for Danish SOC.SCI and LAW's PhD graduates - first employment



Source: Statistics Denmark, August 2018

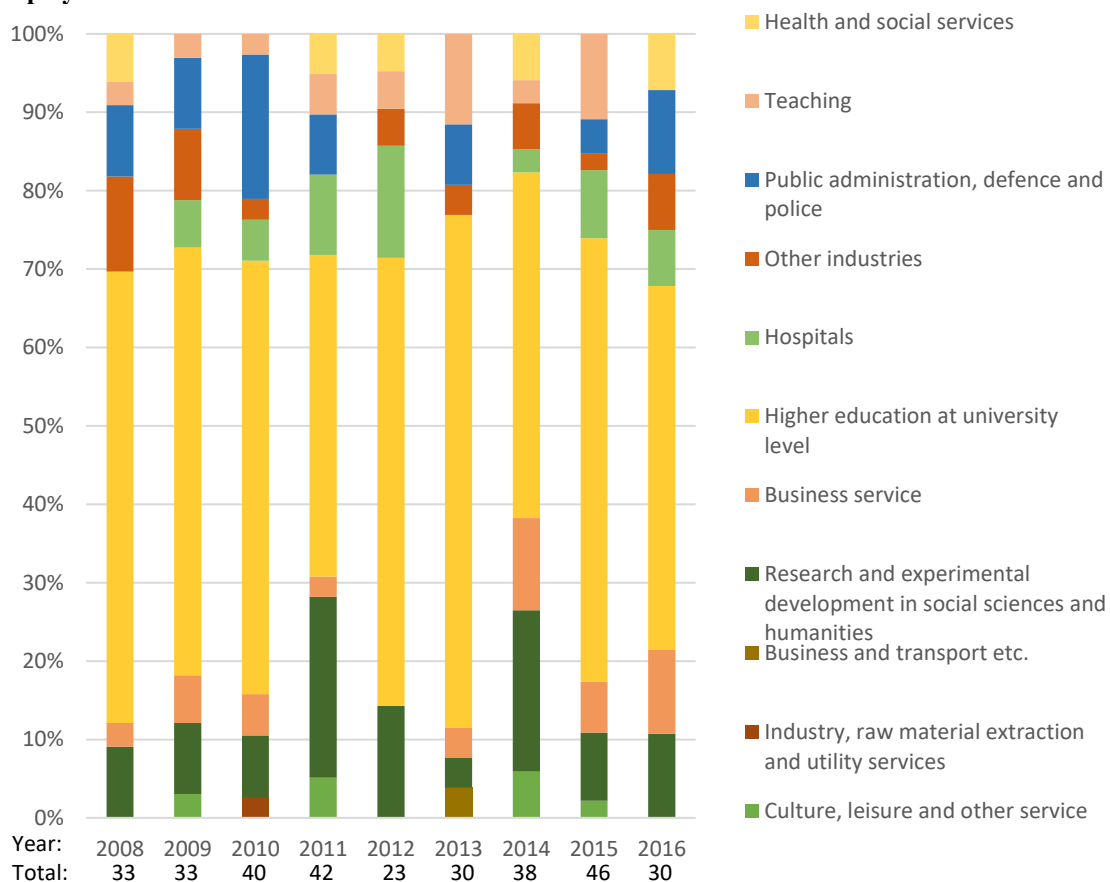
Chart 44: Sector distribution for international SOC.SCI and LAW's PhD graduates - first employment



Source: Statistics Denmark, August 2018

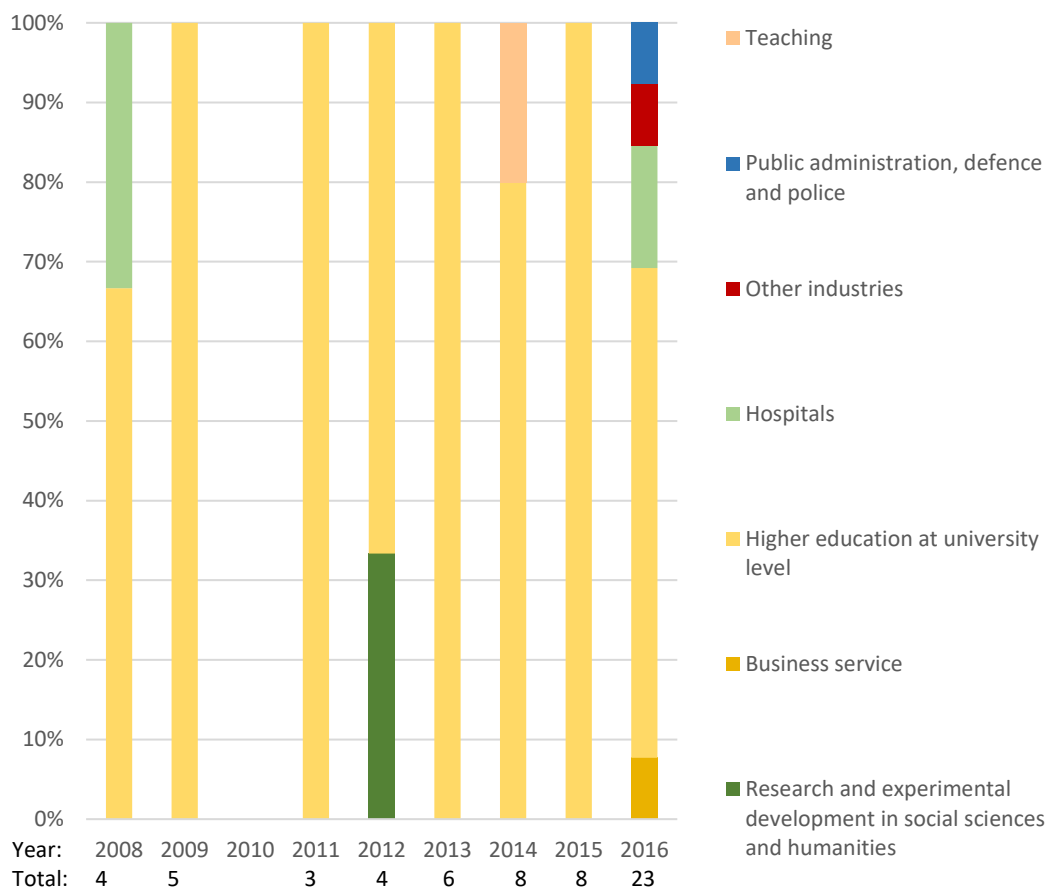
3.4 Industry branch distribution for SOC.SCI and LAW

Chart 45: Industry branch distribution for Danish SOC.SCI and LAW's PhD graduates - first employment



Source: Statistics Denmark, August 2018

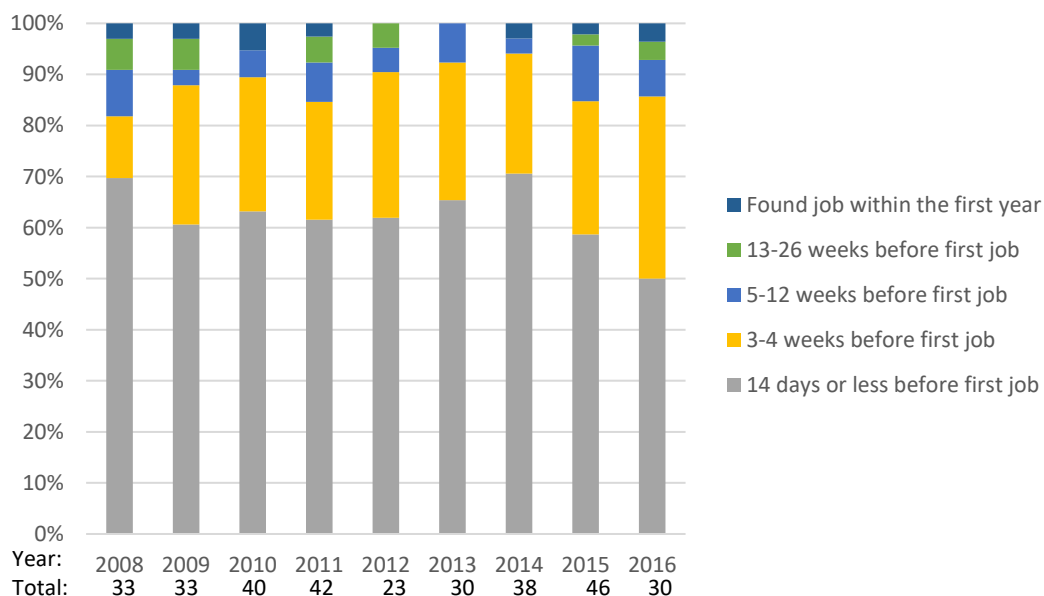
Chart 46: Industry branch distribution for international SOC.SCI and LAW's PhD graduates - first employment



Source: Statistics Denmark, August 2018

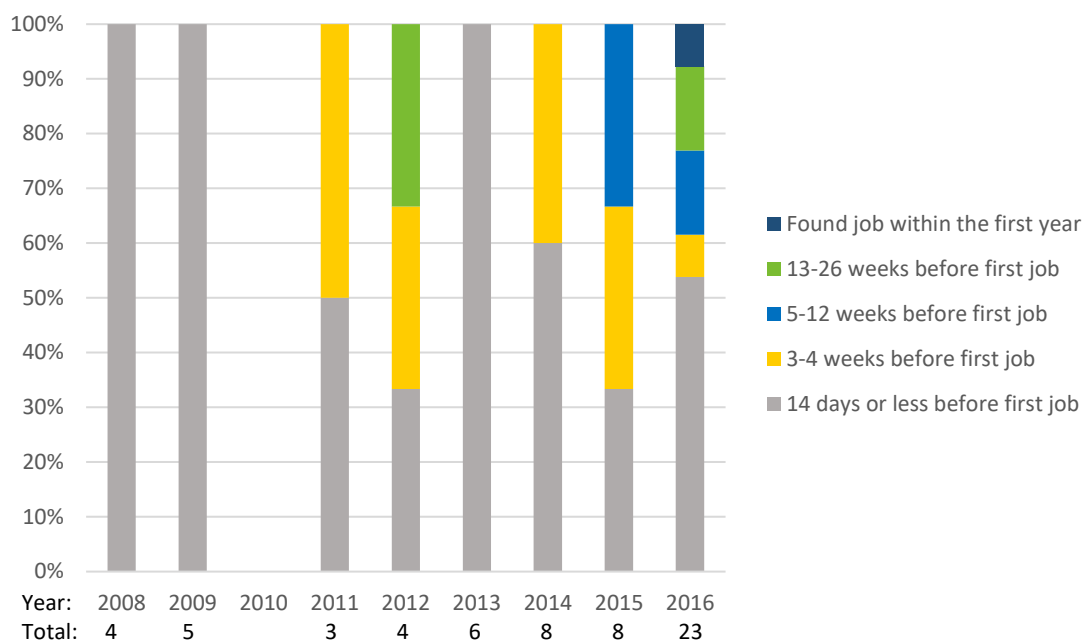
3.5 Time before first employment for SOC.SCI and Law

Chart 47: Time before first employment for Danish SOC.SCI and LAW employees 2008-2016



Source: Statistics Denmark, August 2018

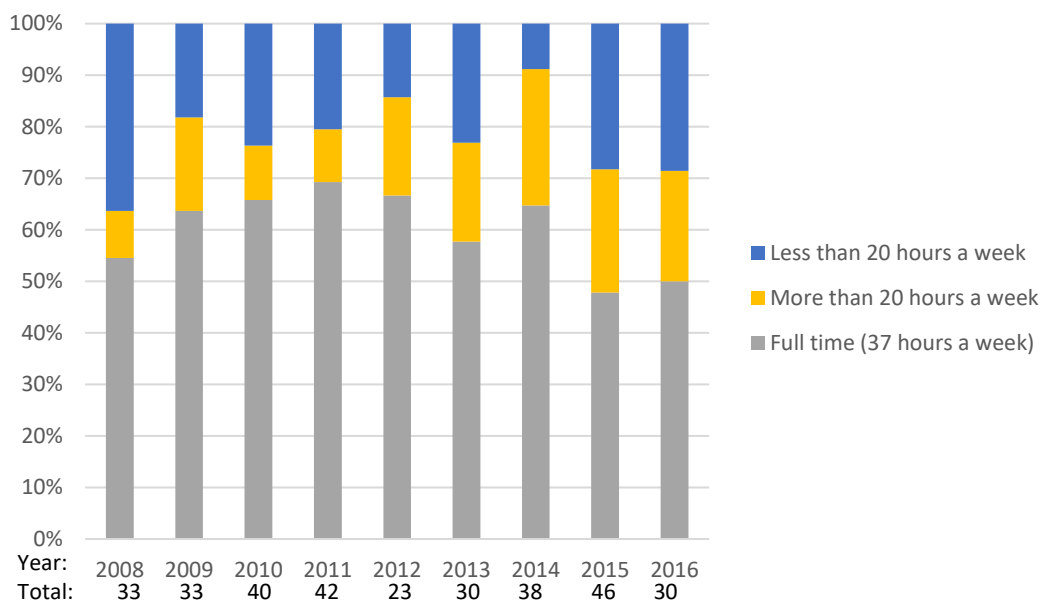
Chart 48: Time before first employment for international SOC.SCI and LAW employees 2008-2016



Source: Statistics Denmark, August 2018

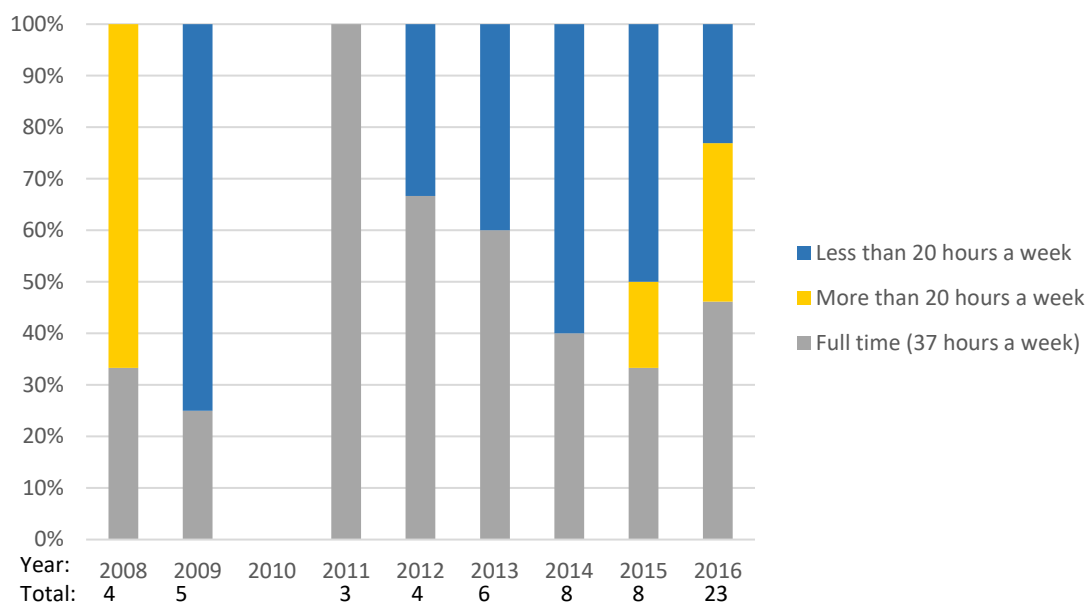
3.6 Type of employment for SOC.SCI and LAW

Chart 49: Type of employment for Danish employees' first employment: full- or part-time



Source: Statistics Denmark, August 2018

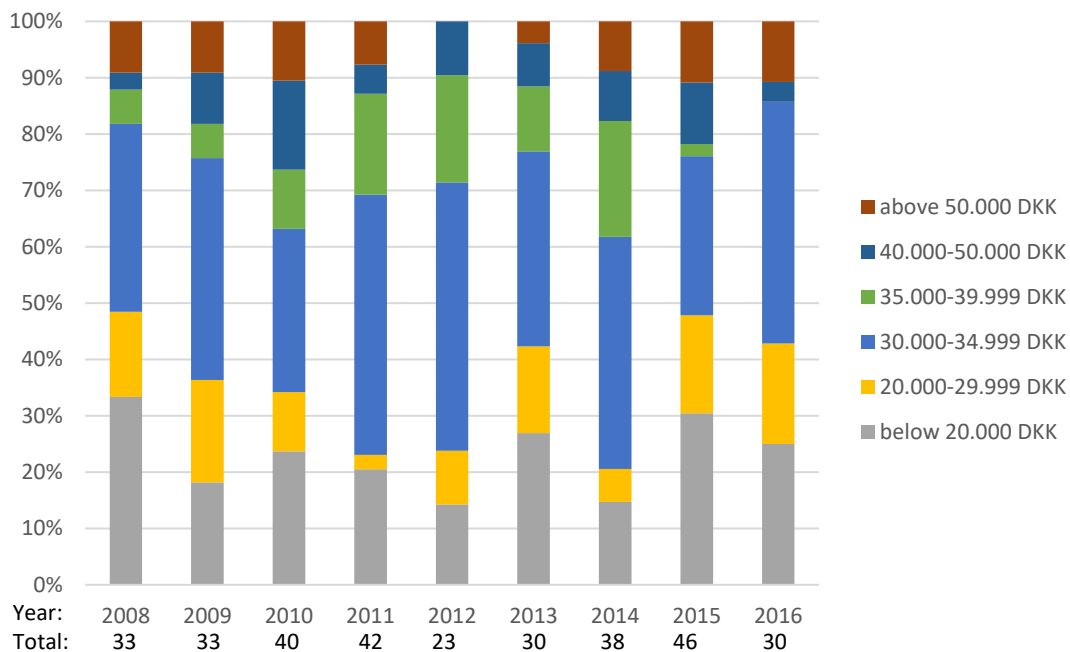
Chart 50: Type of employment for international employees' first employment: full- or part-time



Source: Statistics Denmark, August 2018

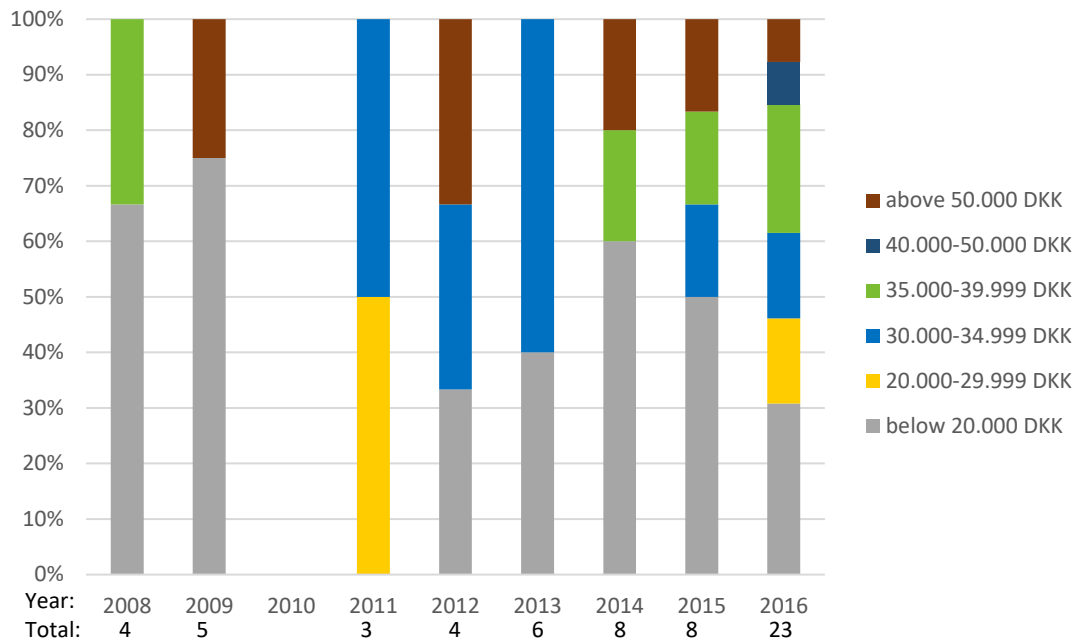
3.7 Wage differentials for SOC.SCI and LAW's PhD graduates - first employment

Chart 51: Wage differentials for full-time Danish employees - first employment



Source: Statistics Denmark, August 2018

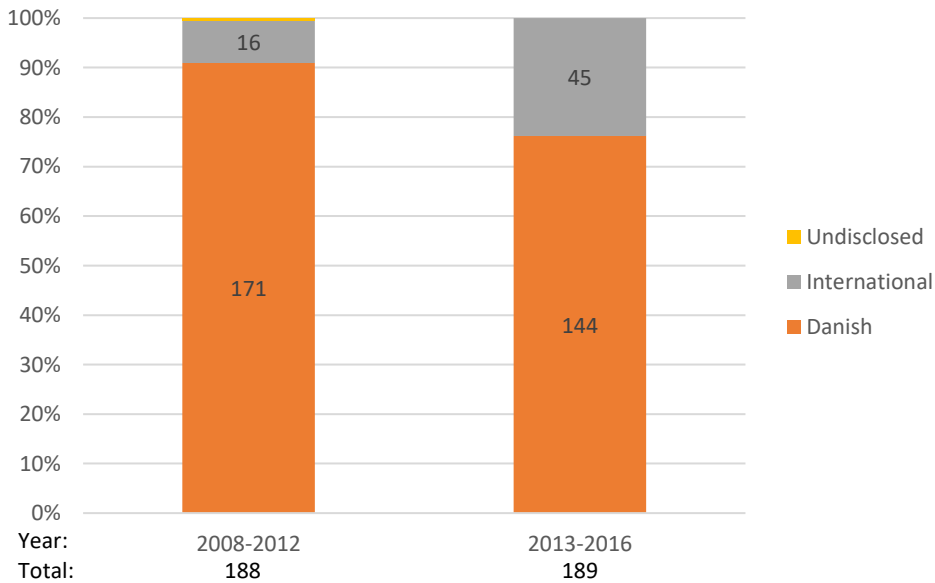
Chart 52: Wage differentials for full-time international employees - first employment



Source: Statistics Denmark, August 2018

3.8 PhDs with Danish or international nationalities from SOC.SCI and LAW

Chart 53: Percentage of PhDs from SOC.SCI and LAW with Danish and international nationalities 2008-2016



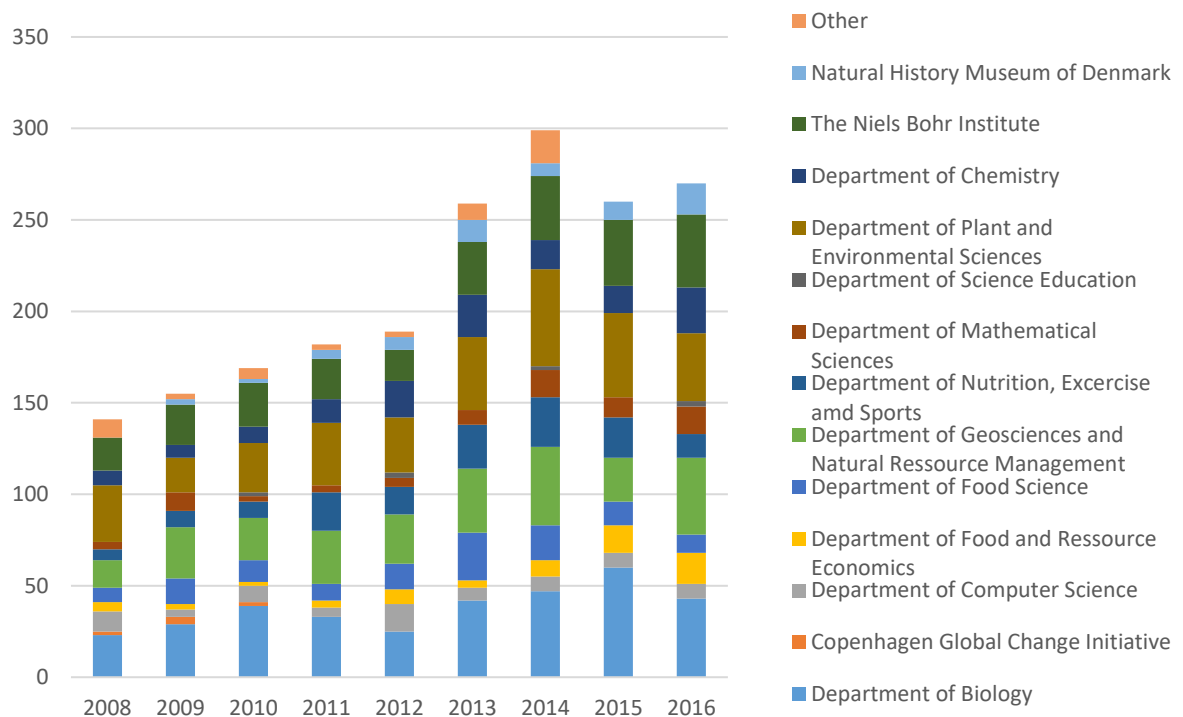
Source: Statistics Denmark, August 2018

4 Faculty of Science

The following chapter addresses data from the Faculty of Science (SCIENCE). The number of graduates are distributed so that they reflect the current departmental structure as closely as possible. Explanations to help interpret individual charts are available in the first chapter on the University of Copenhagen.

4.1 Number of PhDs graduating from SCIENCE

Chart 54: PhD graduates from SCIENCE by department



Source: Statistics Denmark, August 2018

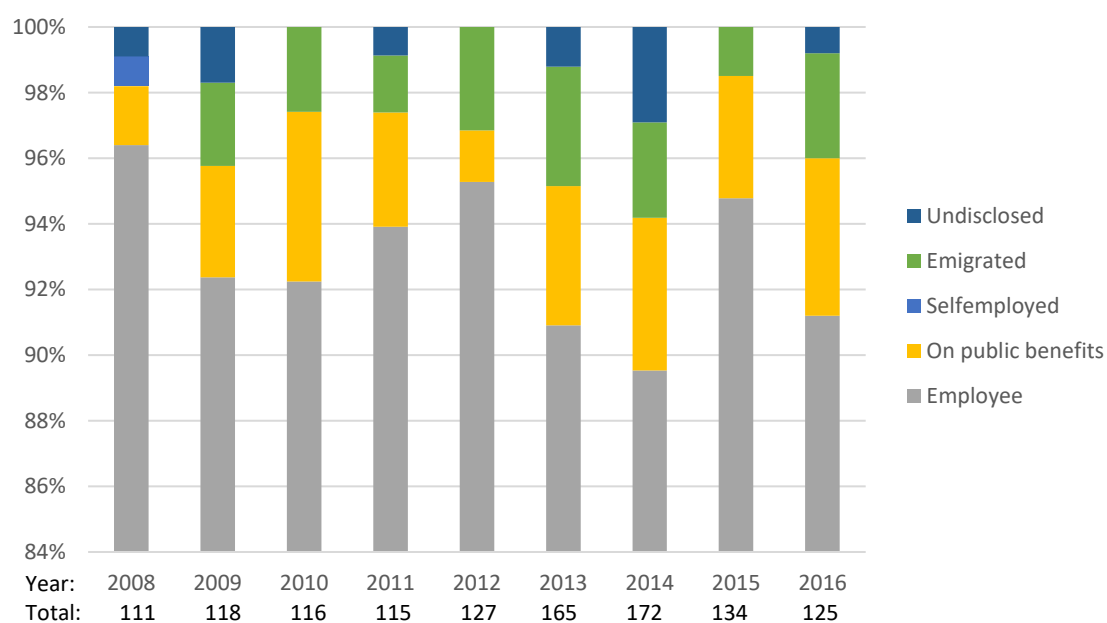
Key figures behind Chart 54: PhD graduates from SCIENCE by department

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Department of Biology | 23 | 29 | 39 | 33 | 25 | 42 | 47 | 60 | 43 | 341 |
| Copenhagen Global Change Initiative | 2 | 4 | 2 | | | | | | | 8 |
| Department of Computer Science | 11 | 4 | 9 | 5 | 15 | 7 | 8 | 8 | 8 | 75 |
| Department of Food and Resource Economics | 5 | 3 | 2 | 4 | 8 | 4 | 9 | 15 | 17 | 67 |
| Department of Food Science | 8 | 14 | 12 | 9 | 14 | 26 | 19 | 13 | 10 | 125 |
| Department of Geosciences and Natural Resource Management | 15 | 28 | 23 | 29 | 27 | 35 | 43 | 24 | 42 | 266 |
| Department of Nutrition, Exercise and Sports | 6 | 9 | 9 | 21 | 15 | 24 | 27 | 22 | 13 | 146 |
| Department of Mathematical Sciences | 4 | 10 | 3 | 4 | 5 | 8 | 15 | 11 | 15 | 75 |
| Department of Science Education | | | 2 | | 3 | | 2 | | 3 | 10 |
| Department of Plant and Environmental Sciences | 31 | 19 | 27 | 34 | 30 | 40 | 53 | 46 | 37 | 317 |
| Department of Chemistry | 8 | 7 | 9 | 13 | 20 | 23 | 16 | 15 | 25 | 136 |
| The Niels Bohr Institute | 18 | 22 | 24 | 22 | 17 | 29 | 35 | 36 | 40 | 243 |
| Natural History Museum of Denmark | | 3 | 2 | 5 | 7 | 12 | 7 | 10 | 17 | 63 |
| Other | 10 | 3 | 6 | 3 | 3 | 9 | 18 | | | 52 |
| Total | 141 | 155 | 169 | 182 | 189 | 259 | 299 | 260 | 270 | 1924 |

Source: Statistics Denmark, August 2018

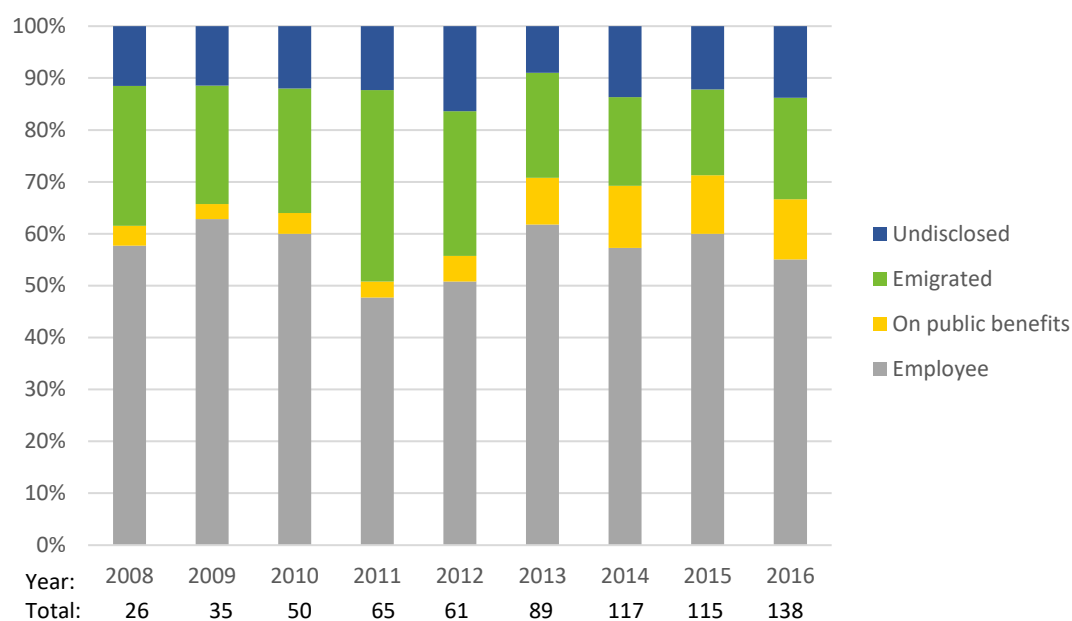
4.2 Employment rate for SCIENCE's PhD graduates

Chart 55: Employment for Danish PhD graduates from SCIENCE 2008-2016



Source: Statistics Denmark, August 2018

Chart 56: Employment for international PhD graduates from SCIENCE 2008-2016



Source: Statistics Denmark, August 2018

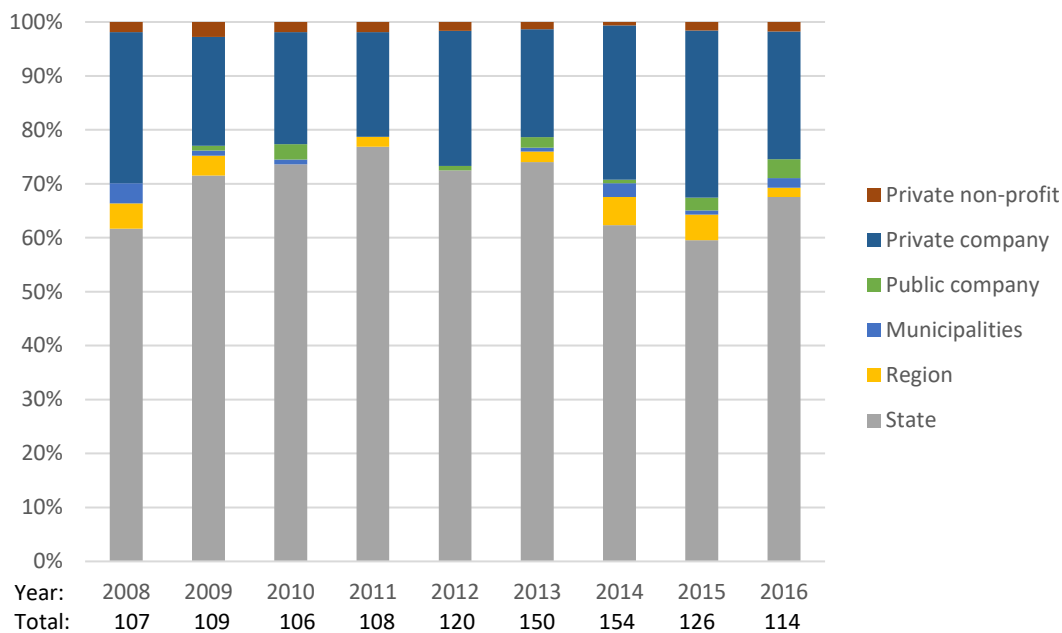
Key figures behind Chart 55+56: Employment for PhD graduates from SCIENCE 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| <i>Danish</i> | | | | | | | | | | |
| Employee | 107 | 109 | 107 | 108 | 121 | 150 | 154 | 127 | 114 | 1097 |
| On public support | 2 | 4 | 6 | 4 | 2 | 7 | 8 | 5 | 6 | 44 |
| Selfemployed | 1 | | | | | | | | | 1 |
| Emigrated | | 3 | 3 | 2 | 4 | 6 | 5 | 2 | 4 | 29 |
| Undisclosed | 1 | 2 | | 1 | | 2 | 5 | | 1 | 12 |
| <i>International</i> | | | | | | | | | | |
| Employee | 15 | 22 | 30 | 31 | 31 | 55 | 67 | 69 | 76 | 396 |
| On public support | 1 | 1 | 2 | 2 | 3 | 8 | 14 | 13 | 16 | 60 |
| Emigrated | 7 | 8 | 12 | 24 | 17 | 18 | 20 | 19 | 27 | 152 |
| Undisclosed | 3 | 4 | 6 | 8 | 10 | 8 | 16 | 14 | 19 | 88 |
| Total | 137 | 153 | 166 | 180 | 188 | 254 | 289 | 249 | 263 | 1879 |

Source: Statistics Denmark, August 2018

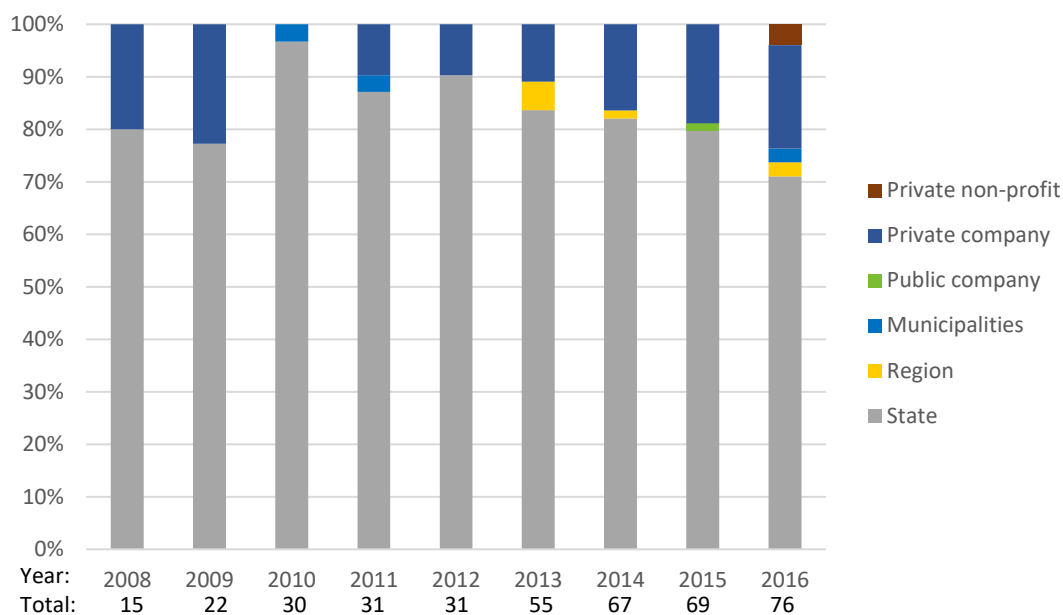
4.3 Sector distribution for SCIENCE's PhD graduates - first employment

Chart 57: Sector distribution for SCIENCE's Danish employees - first employment



Source: Statistics Denmark, August 2018

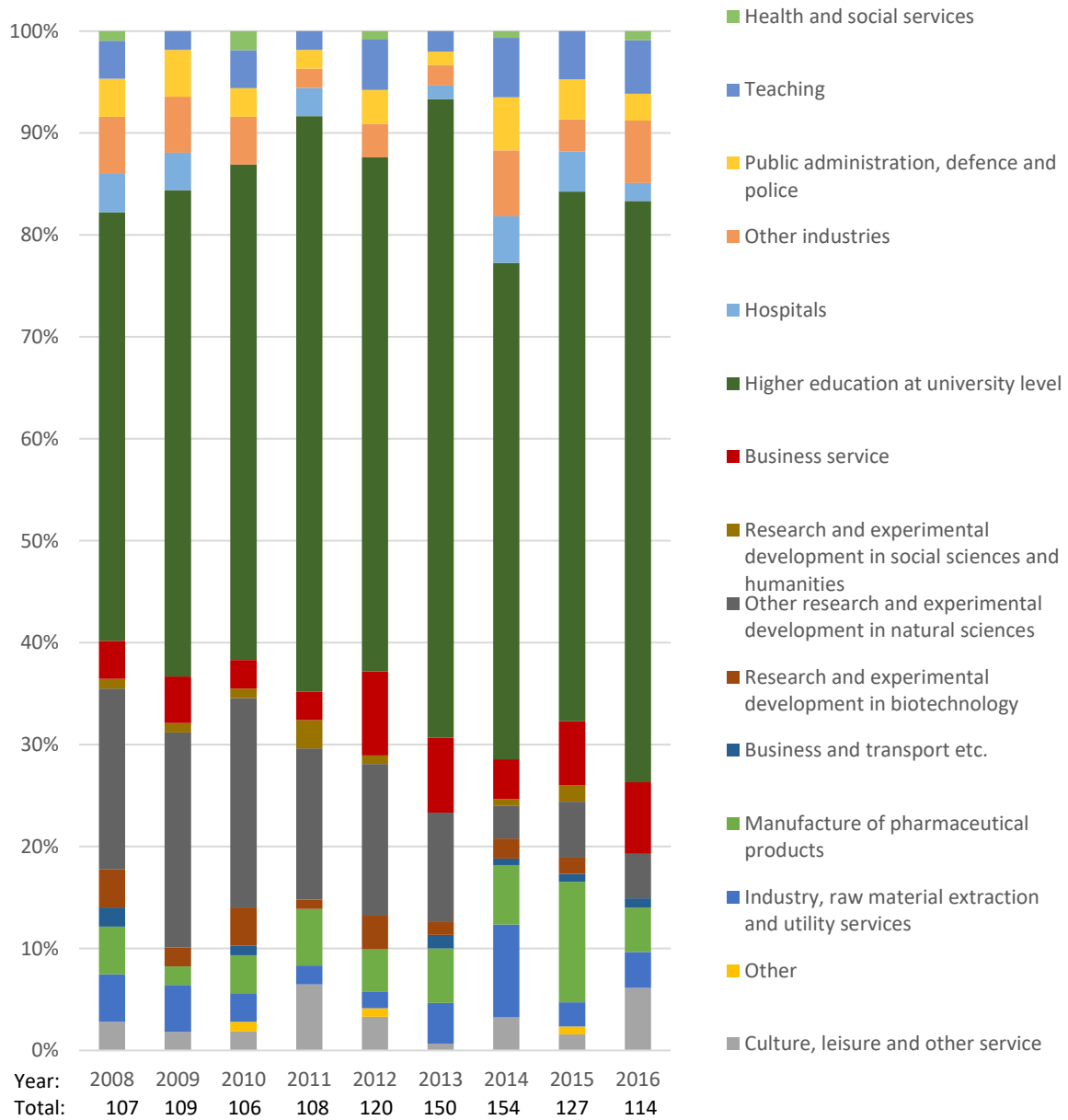
Chart 58: Sector distribution for SCIENCE's international employees - first employment



Source: Statistics Denmark, August 2018

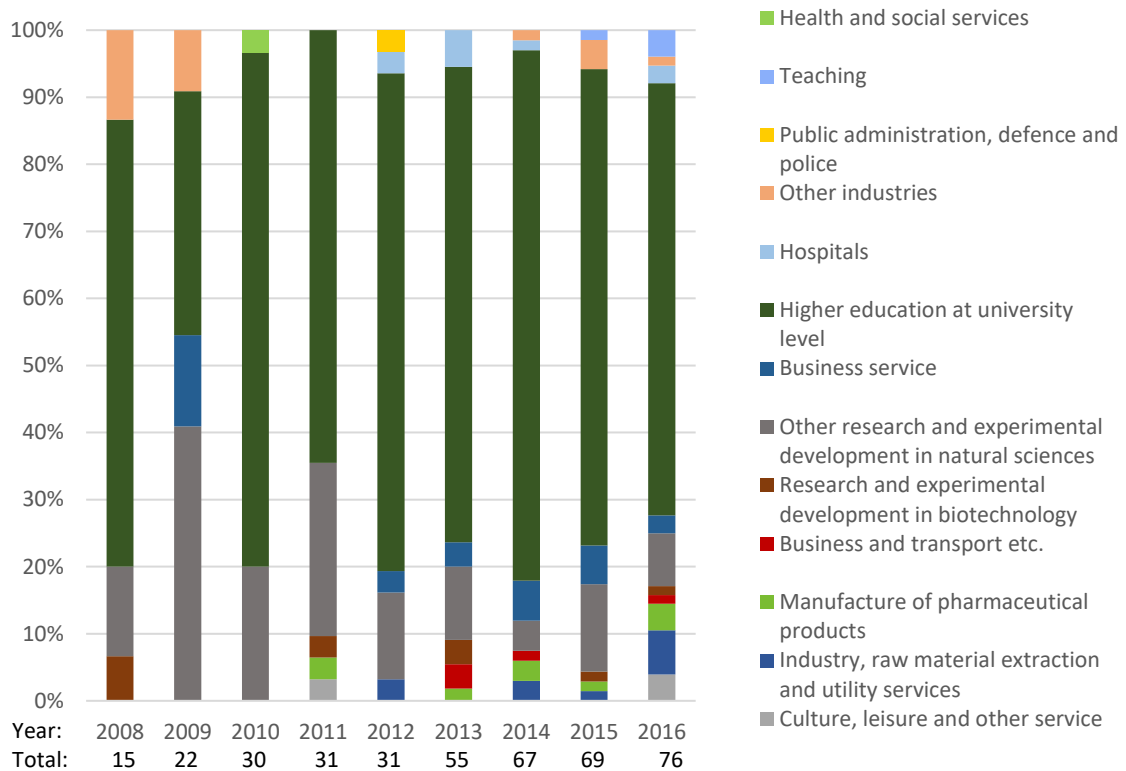
4.4 Industry branch distribution for SCIENCE's PhD graduates - first employment

Chart 59: Industry branch distribution for Danish SCIENCE employees - first employment



Source: Statistics Denmark, August 2018

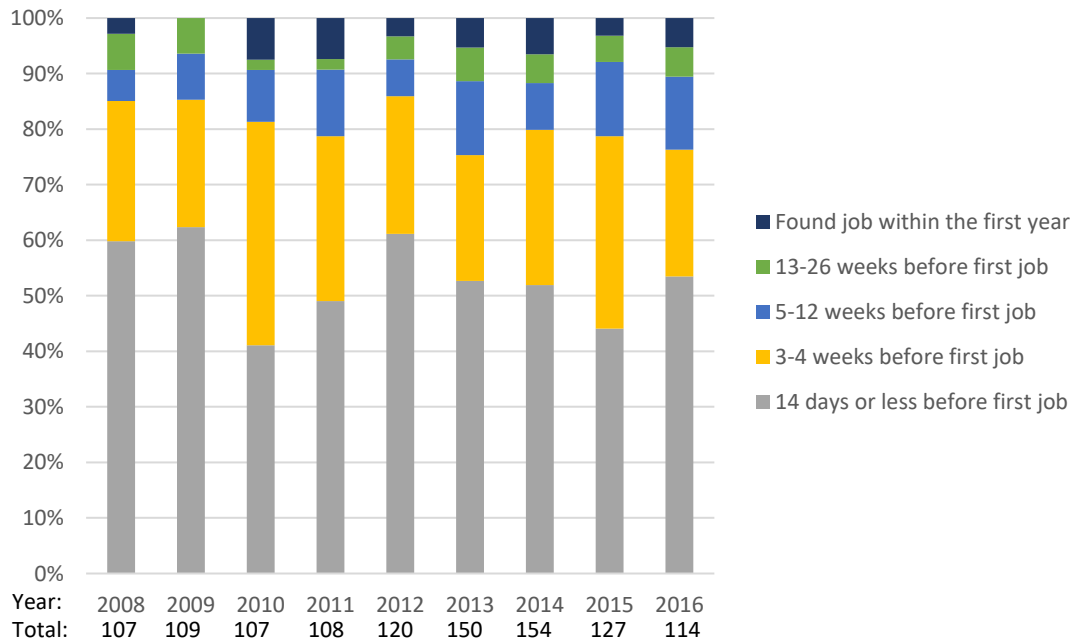
Chart 60: Industry branch distribution for international SCIENCE employees - first employment



Source: Statistics Denmark, August 2018

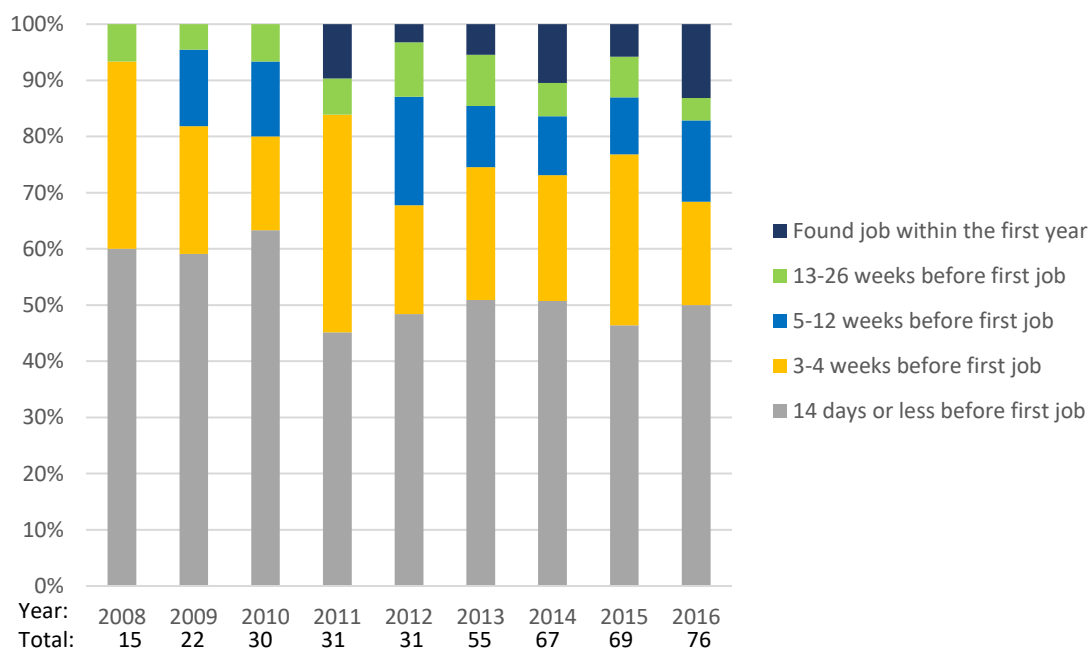
4.5 Time before first employment for SCIENCE's PhD graduates 2008-2016

Chart 61: Time before first employment among SCIENCE's Danish employees 2008-2016



Source: Statistics Denmark, August 2018

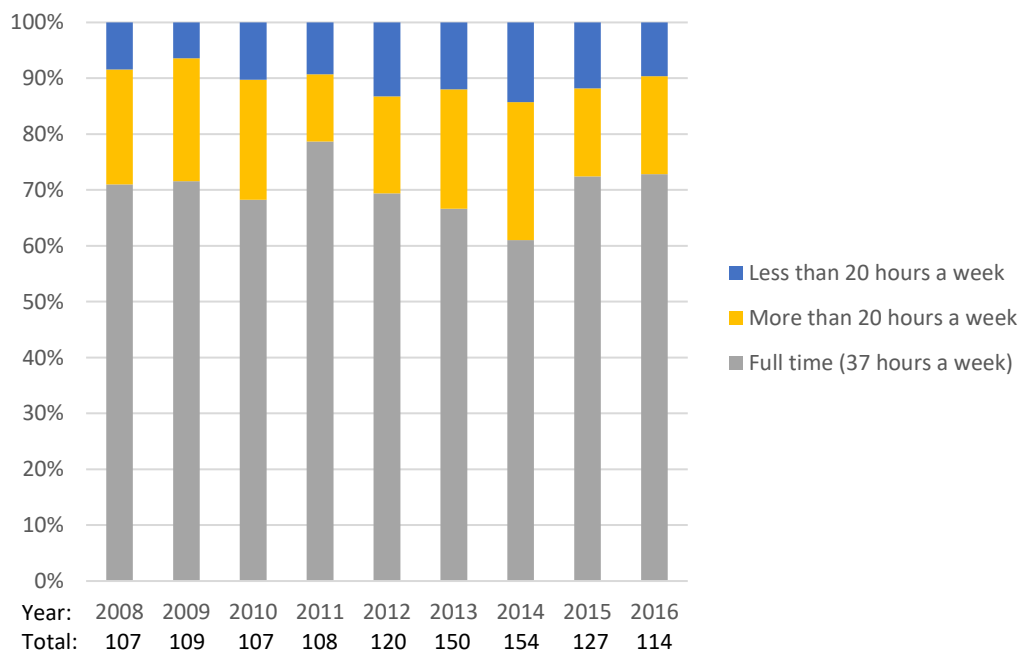
Chart 62: Time before first employment among SCIENCE's international employees 2008-2016



Source: Statistics Denmark, August 2018

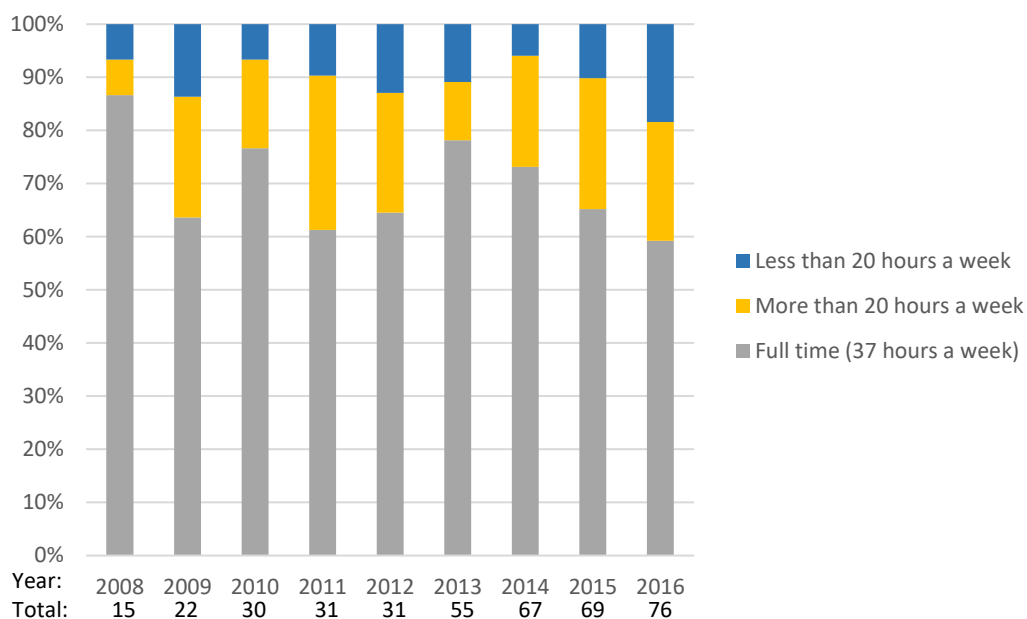
4.6 Type of employment for SCIENCE's PhD graduates 2008-2014

Chart 63: Type of employment for Danish employees' first employment: full- or part-time



Source: Statistics Denmark, August 2018

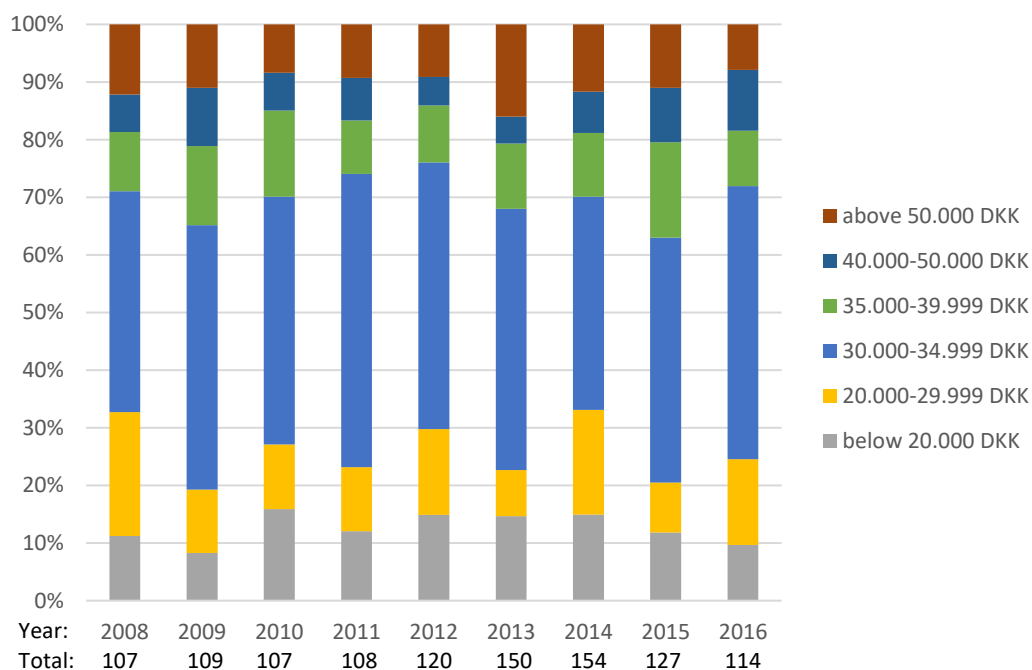
Chart 64: Type of employment for international employees' first employment: full- or part-time



Source: Statistics Denmark, August 2018

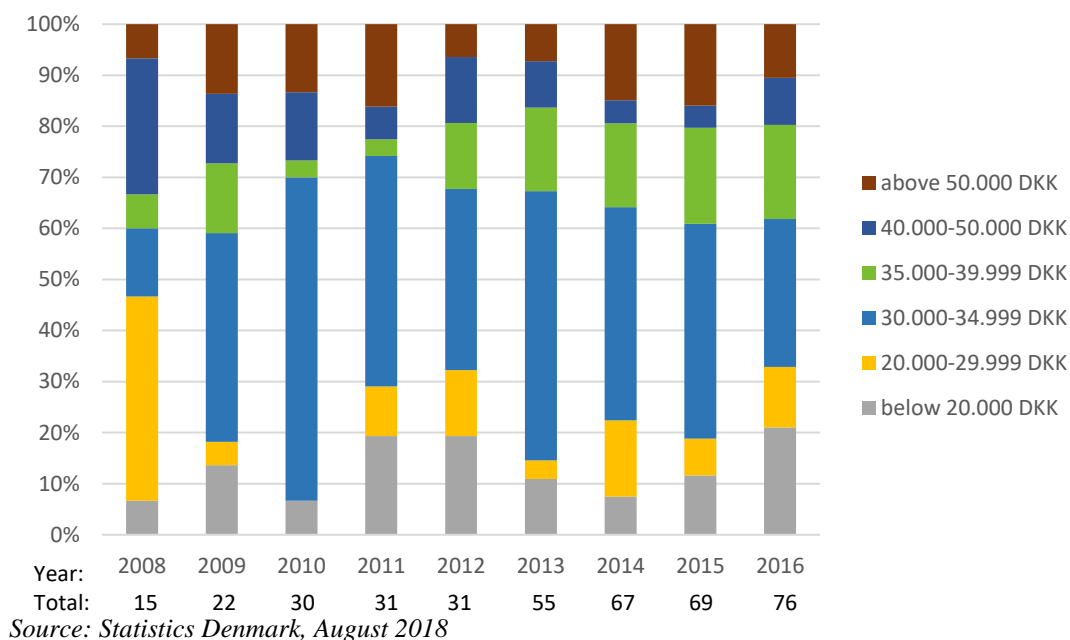
4.7 Wage differentials for SCIENCE's PhD graduates - first employment

Chart 65: Wage differentials for Danish fulltime employees - first employment



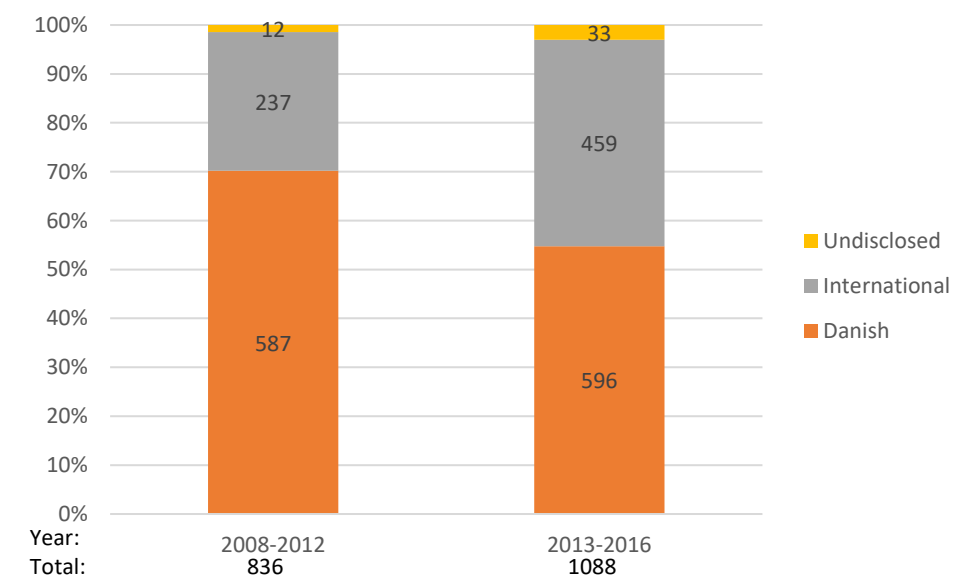
Source: Statistics Denmark, August 2018

Chart 66: Wage differentials for international fulltime employees - first employment



4.8 PhDs with Danish and international nationality

Chart 67: PhDs from SCIENCE with Danish and international nationality 2008-2016

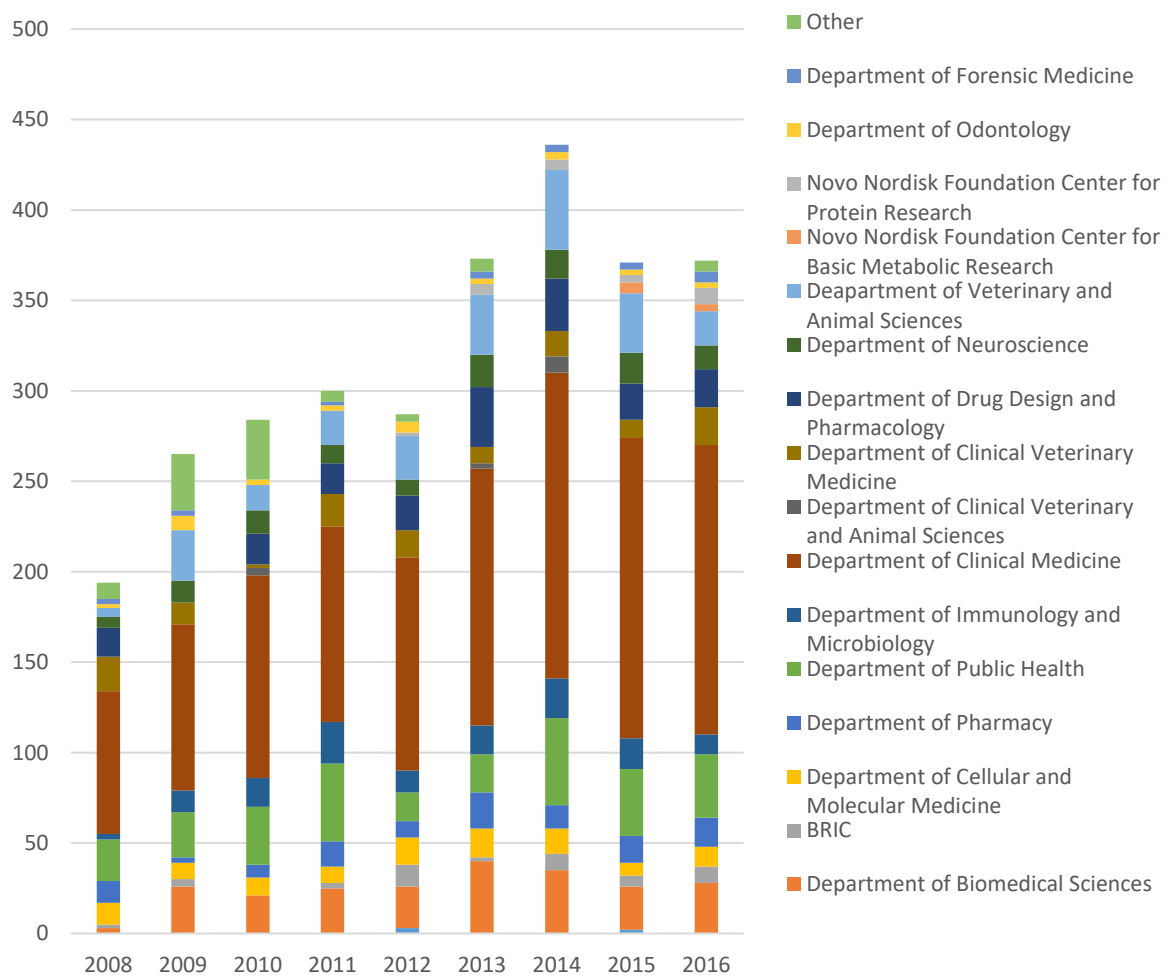


5 Faculty of Health and Medical Sciences

The following chapter addresses data from the Faculty of Health and Medical Sciences (HEALTH). The data includes the former Faculty of Pharmaceutical Sciences, the veterinary departments at the former Faculty of Life Sciences and BRIC. Explanations to help interpret individual charts are available in the first chapter on the University of Copenhagen.

5.1 PhD graduates from HEALTH 2008-2016

Chart 68: PhD graduates from HEALTH by department



Source: Statistics Denmark, August 2018

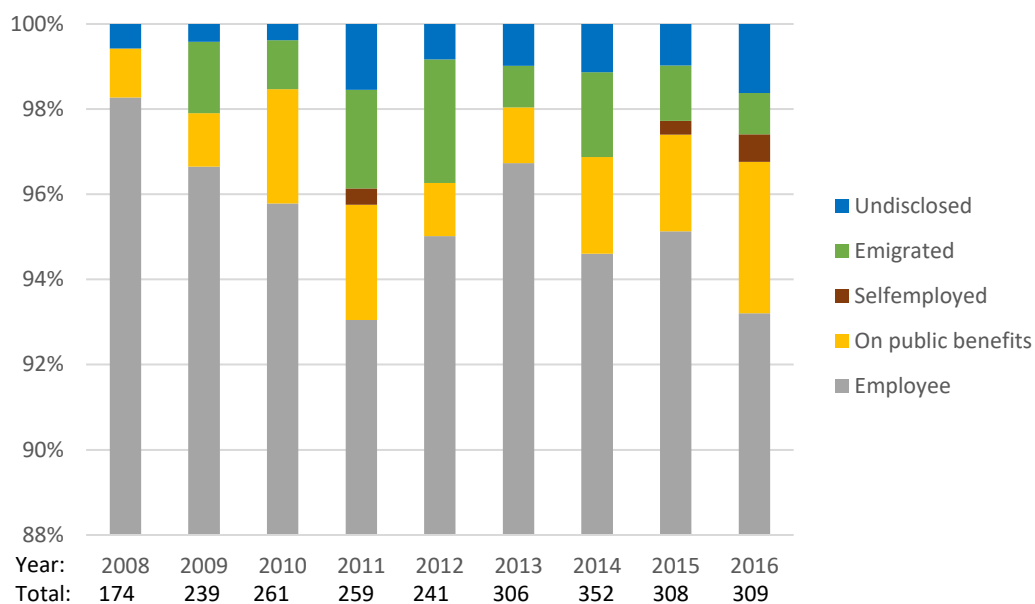
Key figures behind Chart 68: HEALTH's PhD graduates by department 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Department of Experimental Medicine | | | | | 3 | | | 2 | | 5 |
| Department of Biomedical Sciences | 3 | 26 | 21 | 25 | 23 | 40 | 35 | 24 | 28 | 225 |
| BRIC | 2 | 4 | | 3 | 12 | 2 | 9 | 6 | 9 | 47 |
| Department of Cellular and Molecular Medicine | 12 | 9 | 10 | 9 | 15 | 16 | 14 | 7 | 11 | 103 |
| Department of Pharmacy | 12 | 3 | 7 | 14 | 9 | 20 | 13 | 15 | 16 | 109 |
| Department of Public Health | 23 | 25 | 32 | 43 | 16 | 21 | 48 | 37 | 35 | 280 |
| Department of Immunology and Microbiology | 3 | 12 | 16 | 23 | 12 | 16 | 22 | 17 | 11 | 132 |
| Department of Clinical Medicine | 79 | 92 | 112 | 108 | 118 | 142 | 169 | 166 | 160 | 1146 |
| Department of Clinical Veterinary and Animal Sciences | | | 4 | | | 3 | 9 | | | 16 |
| Department of Clinical Veterinary Medicine | 19 | 12 | 2 | 18 | 15 | 9 | 14 | 10 | 21 | 120 |
| Department of Drug Design and Pharmacology | 16 | | 17 | 17 | 19 | 33 | 29 | 20 | 21 | 172 |
| Department of Neuroscience | 6 | 12 | 13 | 10 | 9 | 18 | 16 | 17 | 13 | 114 |
| Department of Veterinary and Animal Sciences | 5 | 28 | 14 | 19 | 24 | 33 | 44 | 33 | 19 | 219 |
| Novo Nordisk Foundation Center for Basic Metabolic Research | | | | | | | | 6 | 4 | 10 |
| Novo Nordisk Foundation Center for Protein Research | | | | | 2 | 6 | 6 | 4 | 9 | 27 |
| Department of Odontology | 2 | 8 | 3 | 3 | 6 | 3 | 4 | 3 | 3 | 35 |
| Department of Forensic Medicine | 3 | 3 | | 2 | | 4 | 4 | 4 | 6 | 26 |
| Other | 9 | 31 | 33 | 6 | 4 | 7 | | | 6 | 96 |
| Total | 197 | 271 | 286 | 300 | 287 | 373 | 438 | 371 | 369 | 2892 |

Source: Statistics Denmark, August 2018

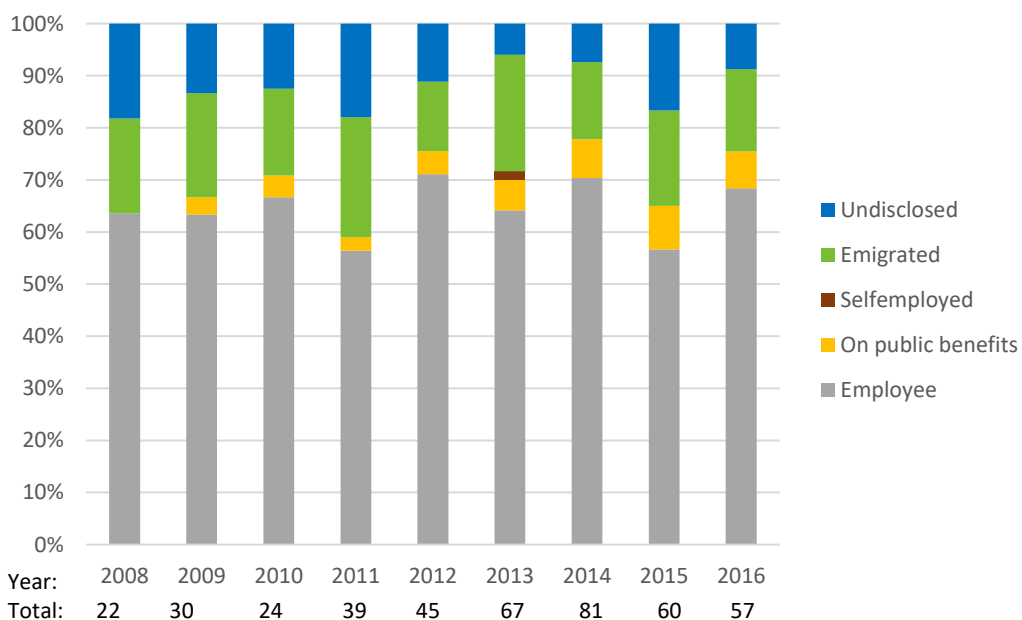
5.2 Employment rate for HEALTH's PhD graduates

Chart 69: Employment for Danish PhD graduates from HEALTH 2008-2016



Source: Statistics Denmark, August 2018

Chart 70: Employment for international PhD graduates from HEALTH 2008-2016



Source: Statistics Denmark, August 2018

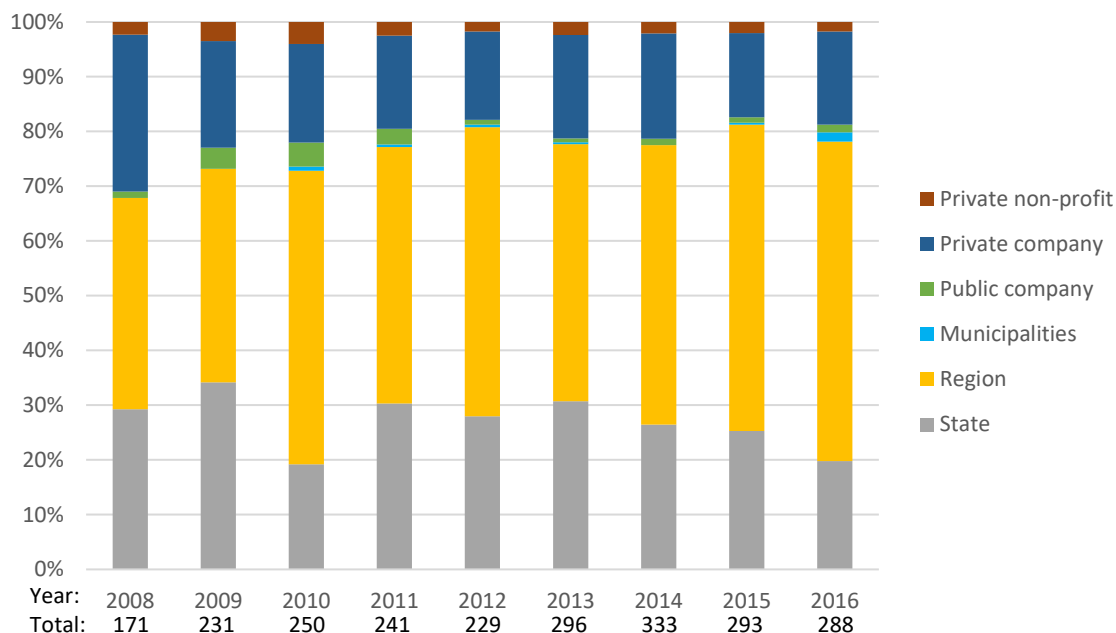
Key figures behind Chart 69+70: Employment for PhD graduates from HEALTH 2008-2016

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Total |
|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| <i>Danish</i> | | | | | | | | | | |
| Employee | 171 | 231 | 250 | 241 | 229 | 296 | 333 | 293 | 288 | 2332 |
| On public support | 2 | 3 | 7 | 7 | 3 | 4 | 8 | 7 | 11 | 52 |
| Selfemployed | | | | 1 | | | | 1 | 2 | 4 |
| Emigrated | | 4 | 3 | 6 | 7 | 3 | 7 | 4 | 3 | 37 |
| Undisclosed | 1 | 1 | 1 | 4 | 2 | 3 | 4 | 3 | 5 | 24 |
| <i>International</i> | | | | | | | | | | |
| Employee | 14 | 19 | 16 | 22 | 32 | 43 | 57 | 34 | 39 | 276 |
| On public support | | 1 | 1 | 1 | 2 | 4 | 6 | 5 | 4 | 24 |
| Selfemployed | | | | | | 1 | | | | 1 |
| Emigrated | 4 | 6 | 4 | 9 | 6 | 15 | 12 | 11 | 9 | 76 |
| Undisclosed | 4 | 4 | 3 | 7 | 5 | 4 | 6 | 10 | 5 | 48 |
| Total | 196 | 269 | 285 | 298 | 286 | 373 | 433 | 368 | 366 | 2874 |

Source: Statistics Denmark, August 2018

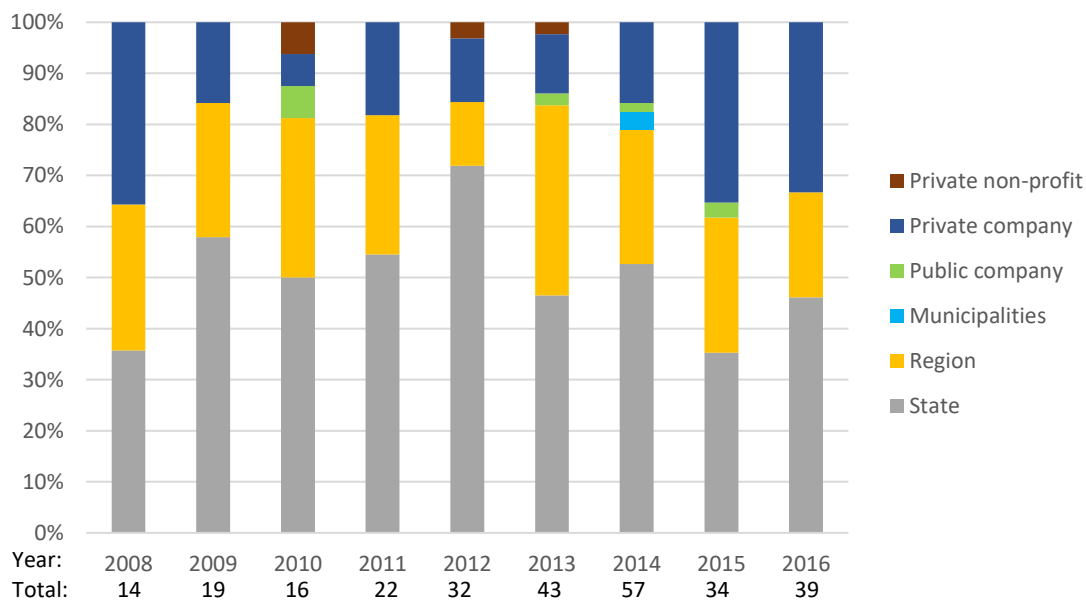
5.3 Sector distribution for HEALTH's PhD graduates - first employment

Chart 71: Sector distribution for HEALTH's Danish PhD employees - first employment



Source: Statistics Denmark, August 2018

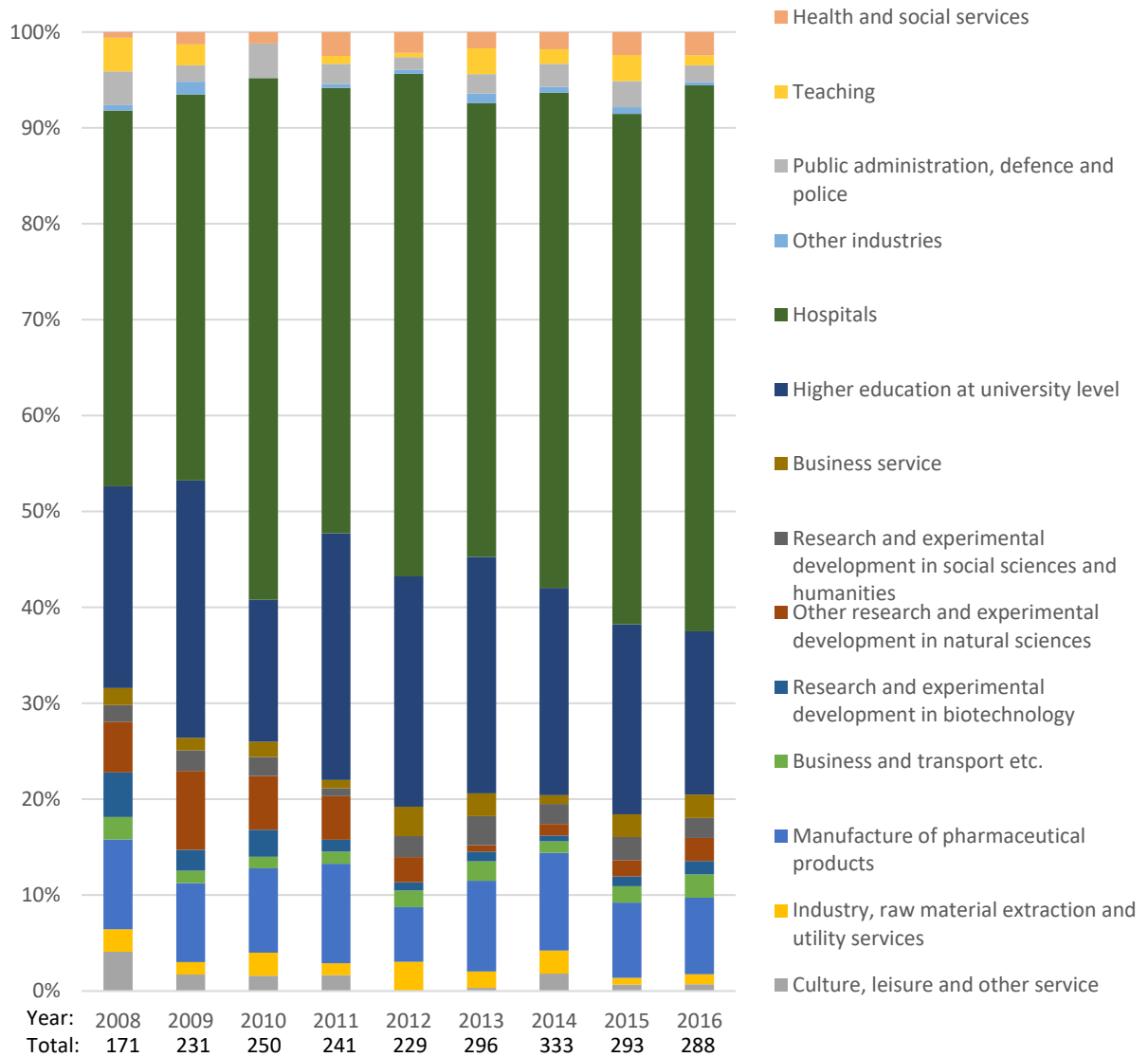
Chart 72: Sector distribution for HEALTH's international PhD employees - first employment



Source: Statistics Denmark, August 2018

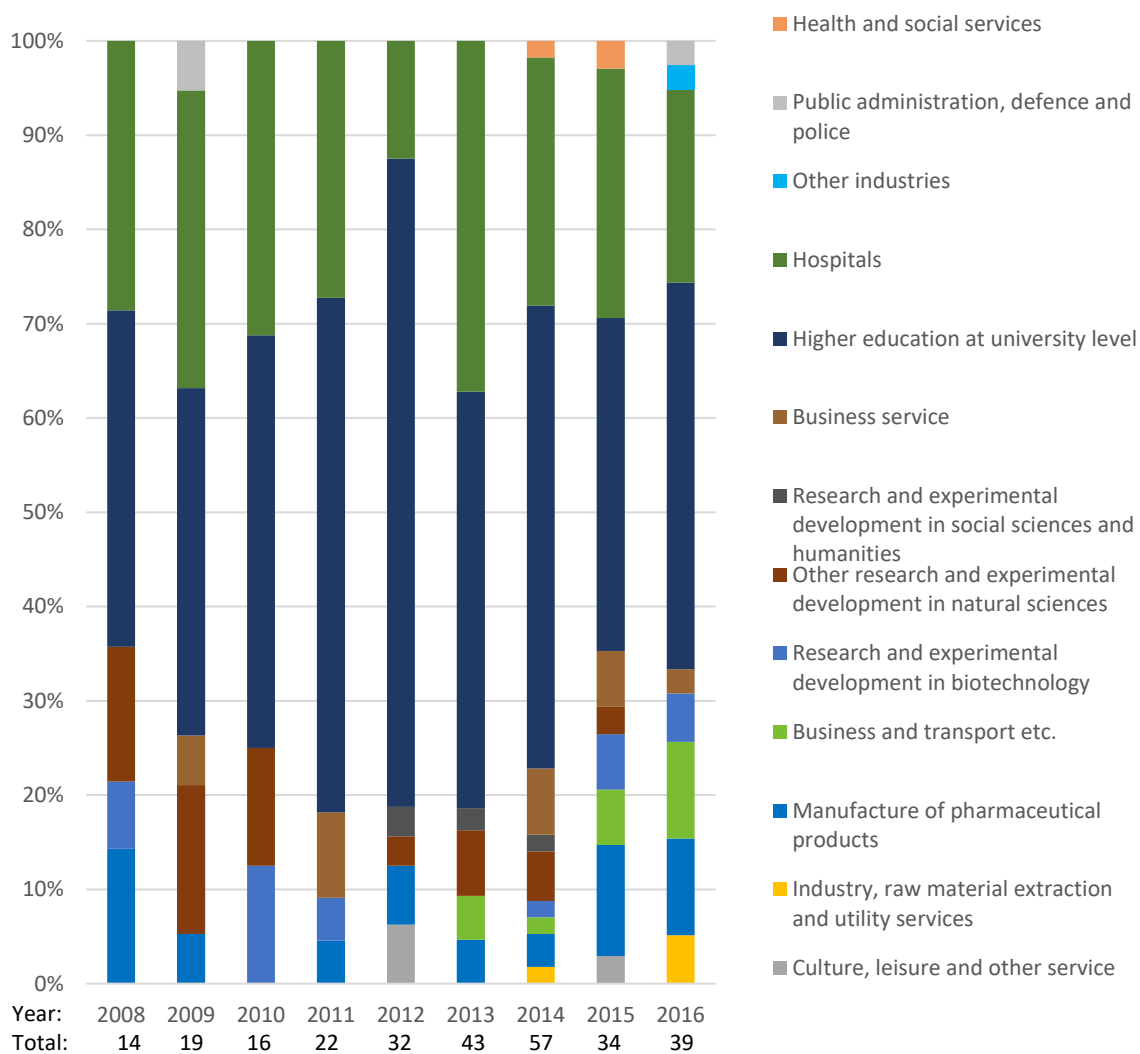
5.4 Industry branch distribution for HEALTH's PhD graduates - first employment

Chart 73: Industry branch distribution for HEALTH's Danish employees - first employment



Source: Statistics Denmark, August 2018

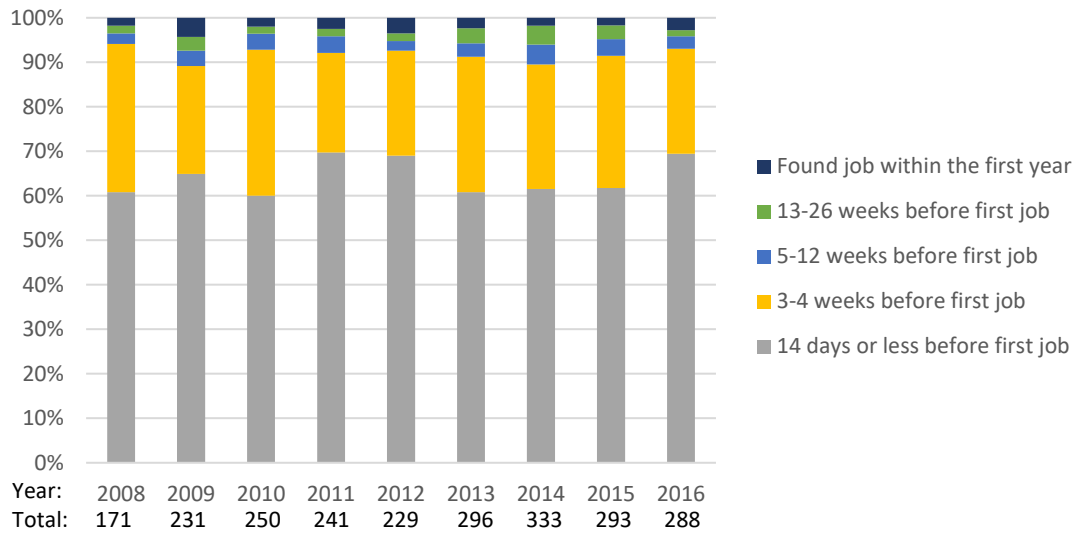
Chart 74: Industry branch distribution for HEALTH's international employees - first employment



Source: Statistics Denmark, August 2018

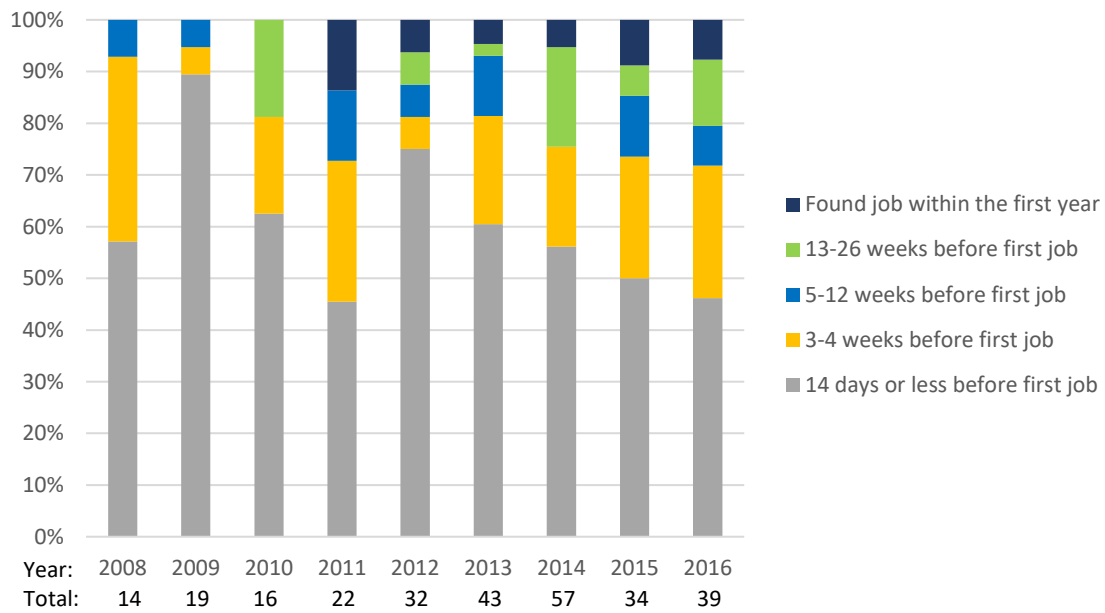
5.5 Time before first employment amongst HEALTH's PhD graduates 2008-2016

Chart 75: Time before first employment among HEALTH's Danish employees 2008-2016



Source: Statistics Denmark, August 2018

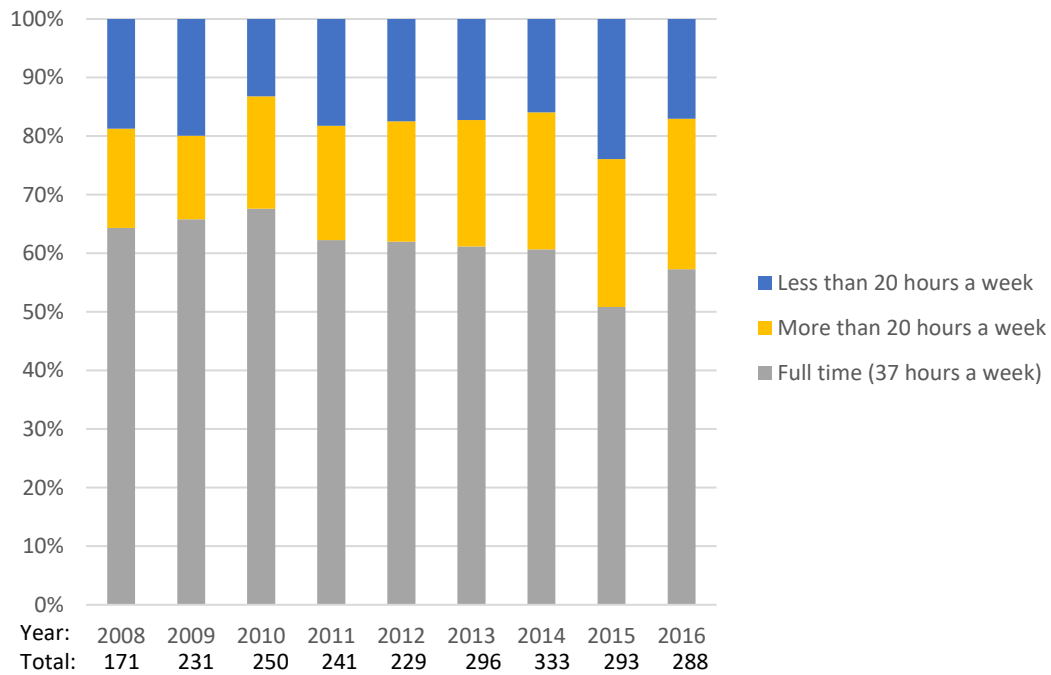
Chart 76: Time before first employment among HEALTH's international employees 2008-2016



Source: Statistics Denmark, August 2018

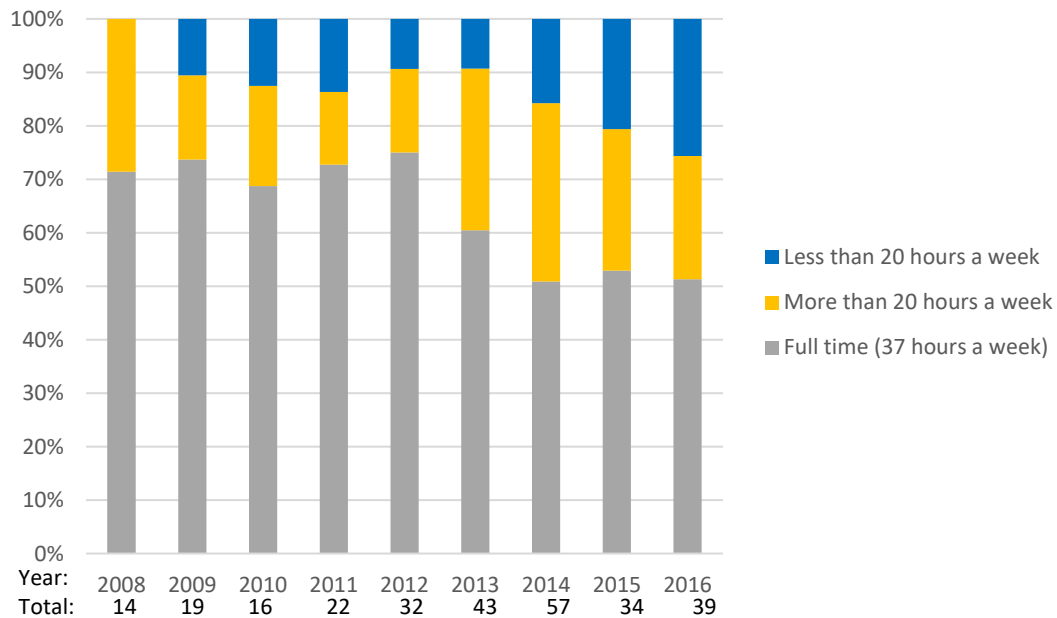
5.6 Type of employment for HEALTH's PhD graduates 2008-2016

Chart 77: Type of employment for Danish employees' first employment: full- or part-time



Source: Statistics Denmark, August 2018

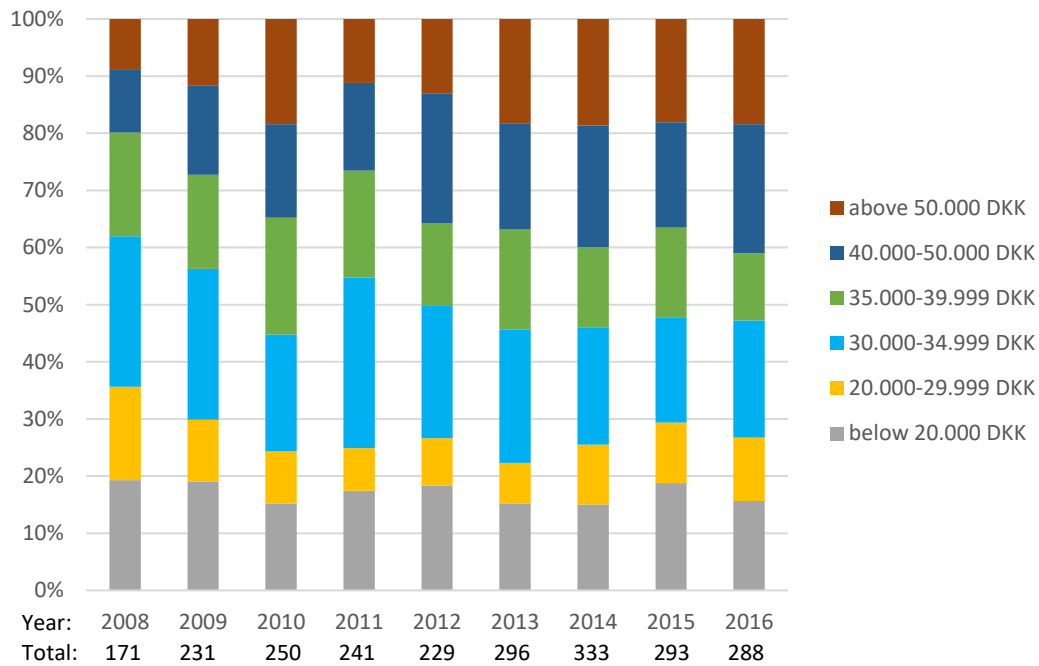
Chart 78: Type of employment for international employees' first employment: full- or part-time



Source: Statistics Denmark, August 2018

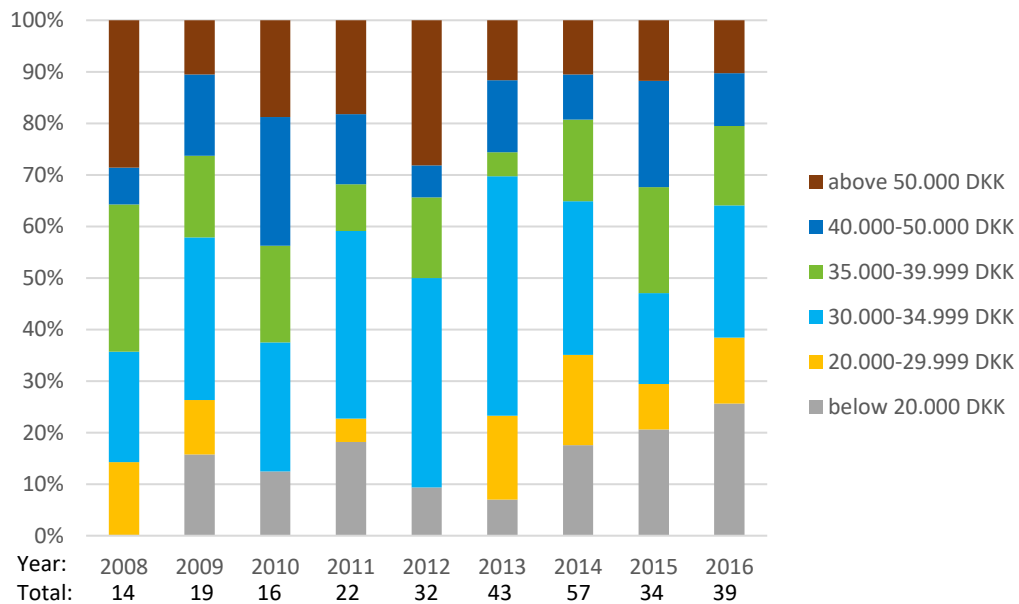
5.7 Wage differentials for HEALTH's PhD graduates - first employment

Chart 79: Wage differentials for Danish fulltime employees - first employment



Source: Statistics Denmark, August 2018

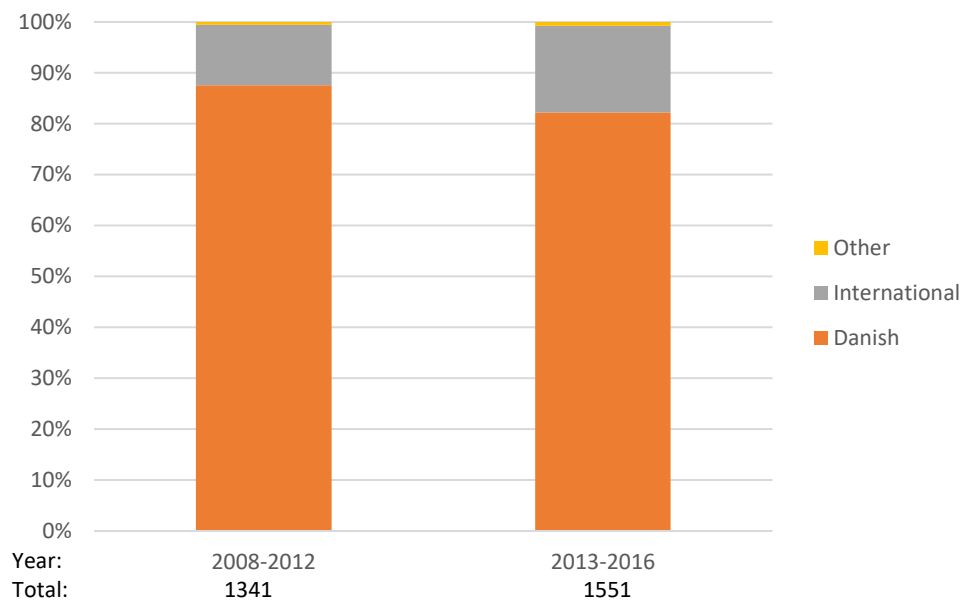
Chart 80: Wage differentials for international fulltime employees - first employment



Source: Statistics Denmark, August 2018

5.8 PhDs with Danish and international nationality from HEALTH

Chart 79: PhDs from HEALTH with Danish and international citizenships 2008-2016



Source: Statistics Denmark, August 2018

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