

2020 survey of graduate employment outcomes

(Bachelor's, master's and doctoral/PhD programmes, and programmes in the Performing and Visual Arts)



Agència
per a la Qualitat
del Sistema Universitari
de Catalunya



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1. Introduction

- In 2000 the Social Councils of the public universities in Catalonia instigated the carrying out of the first survey of the employment outcomes of graduates from the public university system in Catalonia, which was coordinated by AQU Catalunya, with the aim of establishing benchmarks for the quality of the transition from higher education to employment.
- Since then, this project has increased in scale with an increase in the number of institutions taking part, the number of surveys and the survey population, and enormous progress has been made in data processing and producing spin-off products for decision making.



1. Introduction. Development of the study

	2001	2005	2008	2011	2014	2017	2020
Cohort Bachelors	1997-1998	2000-2001 Medicine 1997-1998	2003-2004 Medicine 2000-2001	2006-2007 Medicine 2003-2004	2009-2010 Medicine 2006-2007	2012-2013 Medicine 2009-2010	2015-2016 Medicine 2012-2016
Participating institutions	UB, UAB, UPC, UPF, UdG, UdL, URV	UB, UAB, UPC, UPF, UdG, UdL, URV	UB, UAB, UPC, UPF, UdG, UdL, URV, UVic and UOC	UB, UAB, UPC, UPF, UdG, UdL, URV, UOC, UVic, URL, UIC, UAO 22 affiliated faculties/schools	UB, UAB, UPC, UPF, UdG, UdL, URV, UOC, UVic, URL, UIC, UAO 24 affiliated faculties/schools	UB, UAB, UPC, UPF, UdG, UdL, URV, UOC, UVic, URL, UIC, UAO 31 affiliated faculties/schools Performing and Visual Arts	UB, UAB, UPC, UPF, UdG, UdL, URV, UOC, UVic, URL, UIC, UAO XX affiliated faculties/schools Performing and Visual Arts
Methodology	Telephone survey, except for international PhDs which was an on-line survey						
Surveys	Pre-Bologna u/grad. degrees	Pre-Bologna u/grad. degrees	Pre-Bologna u/grad. degrees PhDs	Pre-Bologna u/grad. degrees PhDs	Pre-Bologna u/grad. degrees Masters PhDs	Bachelors Masters PhDs Performing and Visual	Bachelors Masters PhDs Performing and Visual

1. Introduction. Changes in the population and sample

With more than 100,000 entries, the database is one of the most representative in Europe in its field

Bachelors

	Population	Sample	Response rate (%)	Sample error (%)
2001	21,178	9,766	46.1%	0.74%
2005	21,768	11,456	52.6%	0.64%
2008	23,318	12,553	53.8%	0.61%
2011	28,603	16,182	56.6%	0.52%
2014	31,404	17,396	55.4%	0.51%
2017	33,831	17,458	51.6%	0.53%

Doctorates/PhDs

	Population	Sample	Response rate (%)	Sample error (%)
2001	--	--	--	--
2005	--	--	--	--
2008	1,611	934	58.0%	2.12%
2011	1,824	1,225	67.2%	1.64%
2014	2,080	1,426	68.6%	1.49%
2017	2,594	1,358	52.4%	1.87%

Masters

	Population	Sample	Response rate (%)	Sample error (%)
2001	--	--	--	--
2005	--	--	--	--
2008	--	--	--	--
2011	--	--	--	--
2014	16.218	7.647	47,2%	0,83%
2017	19.824	8.747	44,1%	0,80%

Performing and Visual Arts

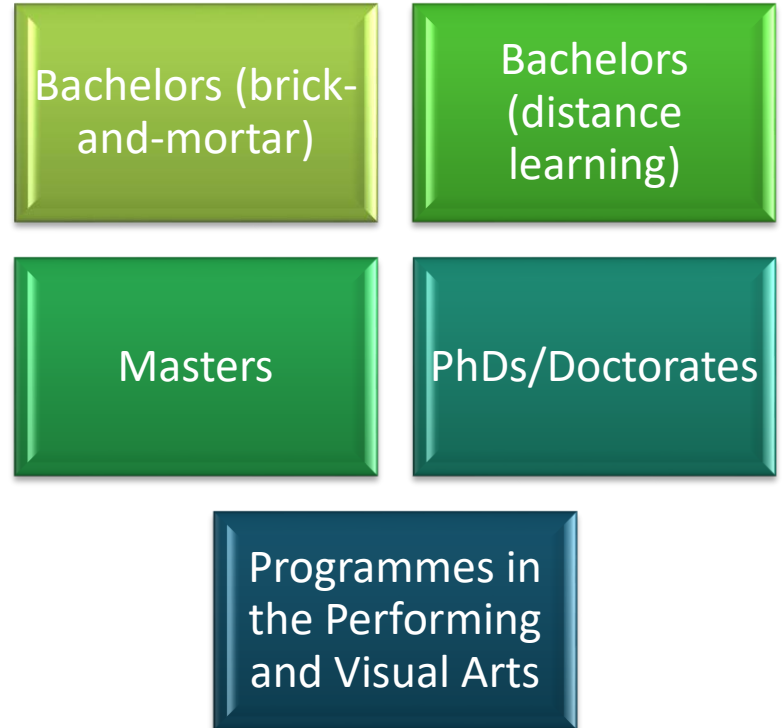
	Population	Sample	Response rate (%)	Sample error (%)
2001	--	--	--	--
2005	--	--	--	--
2008	--	--	--	--
2011	--	--	--	--
2014	--	--	--	--

2. The surveys

The study consists of five surveys, which are revised every edition in order for improvements to be introduced.

The value of the study lies in its comparability, in terms of its:

- **Cross-disciplinary nature:** all participants are covered by the same surveys
- **Length:** the time series extends to up to sixteen years in the case of certain bachelor's programmes



2. The surveys. Variables which are analysed

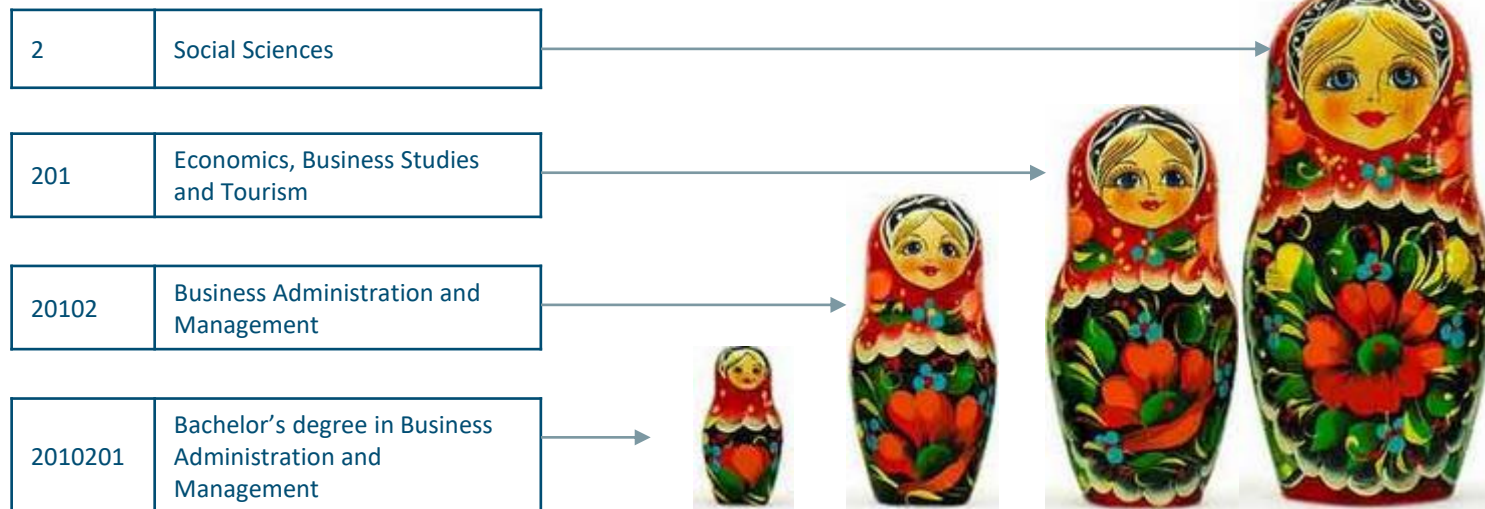
Bachelors (153 variables)	Masters (106 variables)	PhDs/Doctorates (77 variables)
<ul style="list-style-type: none">• Occupation• Quality of employment• Satisfaction with the degree programme and the university (assessment of skills acquisition)	<ul style="list-style-type: none">• Academic background• Occupation, quality of employment and progress• Satisfaction with the Master's programme• Mobility and internationalisation	<ul style="list-style-type: none">• Academic data• Work history, occupation and quality of employment• Satisfaction with doctoral studies• Mobility and the impact of doctoral studies

The survey of Bachelor's programmes and those in the Performing and Visual Arts is representative at degree and university level, and the doctorate and Master's survey at degree subject level.

3. Spin-off products. The catalogue

A catalogue has been established with a listing of degrees that provides for:

- Results at different levels of aggregation, according to users' needs.
- The linking of data with different sources of information (e.g. Ministry of Education and Science)
- The integration of different levels of study (Bachelors, Masters and PhDs/doctorates)
→ correspondence with the European Qualifications Framework



The catalogue is revised once a year and is used as the basis for the entire study



An integrated microdata database

- Presented in different formats (SPSS, Excel, etc.).
- Debugged and encoded to facilitate data processing, data mining and analysis at user level.
- The variables and categories are standardised between surveys (and editions of the survey) to facilitate comparability.
- Earlier editions of the survey are incorporated into one file to facilitate progressive analysis.

3. Spin-off products. Web platform

Public data on a multilingual web platform

(only publicly disclosed if the sample error is $< 15\%$ and the sample size > 9):

- The possibility of privately viewing the data together with those of other participating institutions
- The institution's home screen and web domain can be customised. Private use allows for the viewing of all data, including those with a sample error $> 15\%$
- Data reports can be downloaded in different formats (PPT, Excel, CSV, PDF, etc.)
- Statistical data and indicators can be used for programme monitoring/follow-up and accreditation



3. Spin-off products. Comparative indicators

Comparative indicators for the programmes participating in the study.

Web display is always private (a university only has access to its own results):

- Colour coding shows whether the indicators analysed are worse, the same or better than those of other units analysed.
- Comparison is made for the different levels of aggregation of degrees specified in the single catalogue.
- Easy-to-view display of the strengths of the units analysed, as well as aspects to be enhanced.
- All reports can be downloaded in various formats (PPT, Excel, CSV, PDF, etc.)

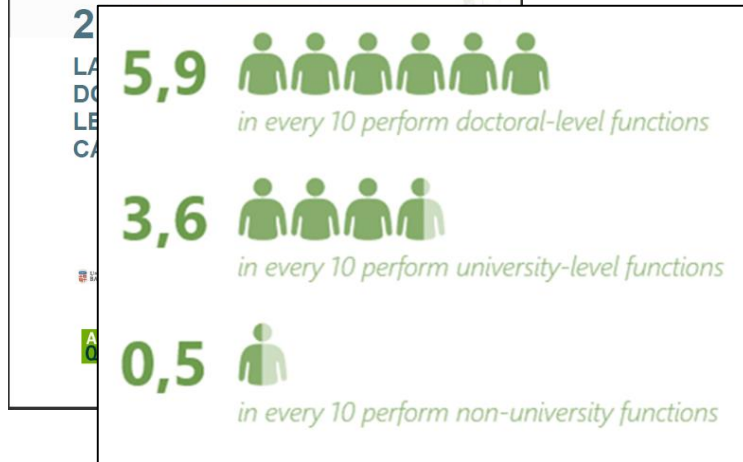
	Arqueologia	Historia	Historia de l'art	Iconologia
Tipus de grau de la titulació				
% titulació al màster	75%	38%	82%	58%
% titulació amb plans universitaris	26,3	31,4	23,4	23,4
% internacional	33%	40%	47%	37%
% internacional	4%	0%	1%	0%
% titulació a través d'intercanvi	36%	33%	28%	44%
Indicadors de qualitat i eficiència de la titulació				
% aprovats	40%	36%	40%	39%
% realitzem funcions universitàries	28%	30%	34%	22%
% realitzem funcions pròpies de l'ensenyament	37%	33%	34%	41%
Distribució de graus i assignatures i mòduls				
Quantitat amb la forma (U-E)	8,1 U	6,5 U	7,2 U	5,7 U
% amb contacte U-E	22%	42%	45%	44%
% amb contacte amb el món	11%	2%	11%	11%
% realitzem a través d'intercanvi	24%	24%	24%	29%
% en funcions directives	28%	17%	28%	11%
% en contacte amb nivells de competències alt	23%	40%	33%	34%
Quants mòduls	840 U	1.054 U	1.090 U	894 U
% que es realitzen abans de 4 mesos	47%	78%	78%	78%
Distribució de les assignatures				
Formació bàsica	7,0 U	7,0 U	7,0 U	6,3 U
Formació pràctica	4,4 U	5,4 U	5,4 U	4,1 U
Esportiu	4,4 U	5,4 U	5,4 U	4,1 U
Talant	4,4 U	5,4 U	5,4 U	4,1 U
Solució de problemes	4,1 U	4,3 U	4,3 U	3,3 U
Competències	4,1 U	4,3 U	4,3 U	4,7 U
Pensament crític	7,4 U	7,4 U	7,2 U	6,4 U
Influència	4,1 U	5,4 U	5,4 U	4,1 U
Idioma	4,1 U	5,4 U	5,4 U	4,1 U
Indicadors de qualitat i eficiència de la titulació				
% titulació que repeteix el grau	40%	48%	48%	50%
% titulació que repeteix el grau	35%	36%	37%	34%

	Arqueologia	Historia
Arqueologia	231	222
Historia	228	123
Historia de l'art	111	111
Total	650	558

The production of personalised analyses and reports according to survey, degree programme, university or faculty in various formats

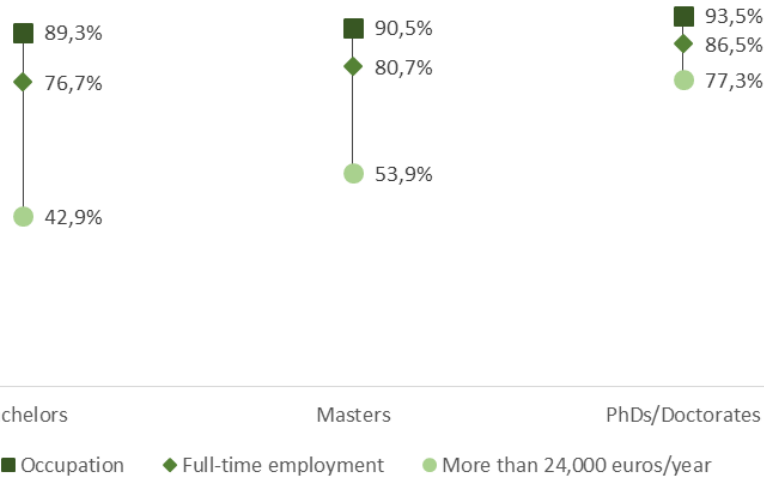


- On demand.



3. Spin-off products. Example: main results

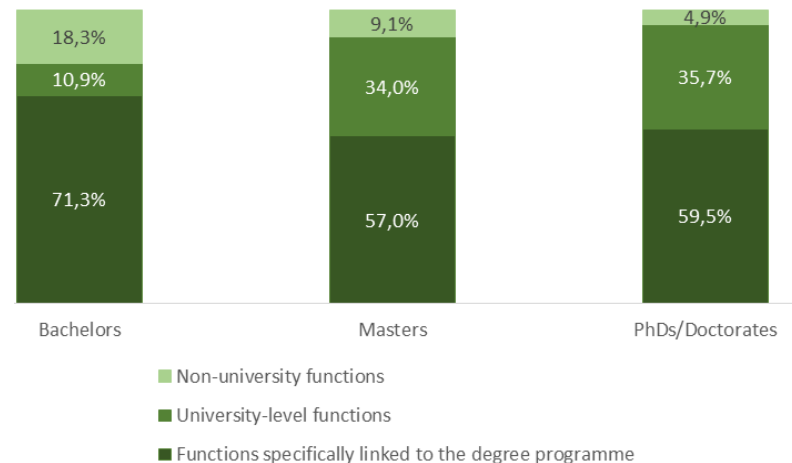
% in employment, full-time with salaries over 2,000 euros



The higher the level of education, the higher the probability of being in employment, of having a full-time contract and a better salary.

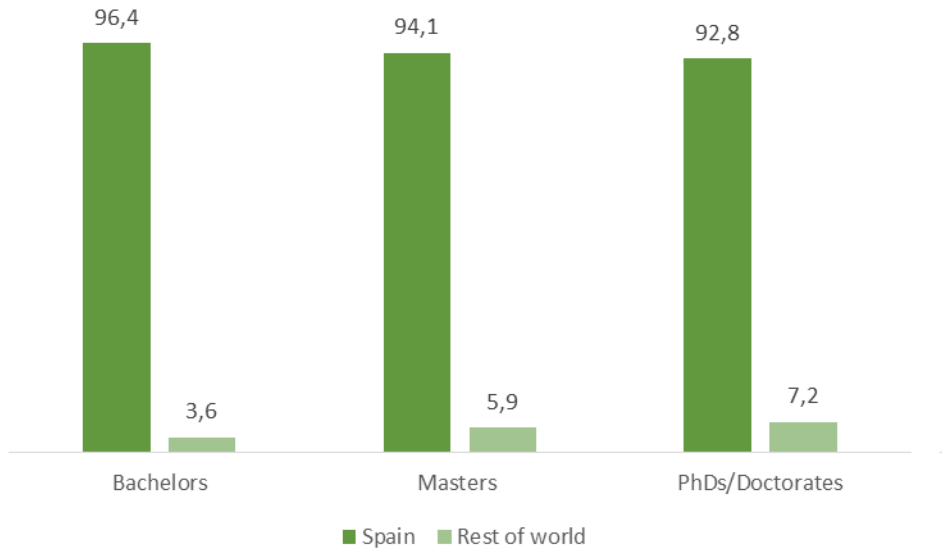
The higher the level of education, the higher the proportion of graduates with a graduate-level job specification.

Level of job specification



3. Spin-off products. Example: main results

Where do graduates work?

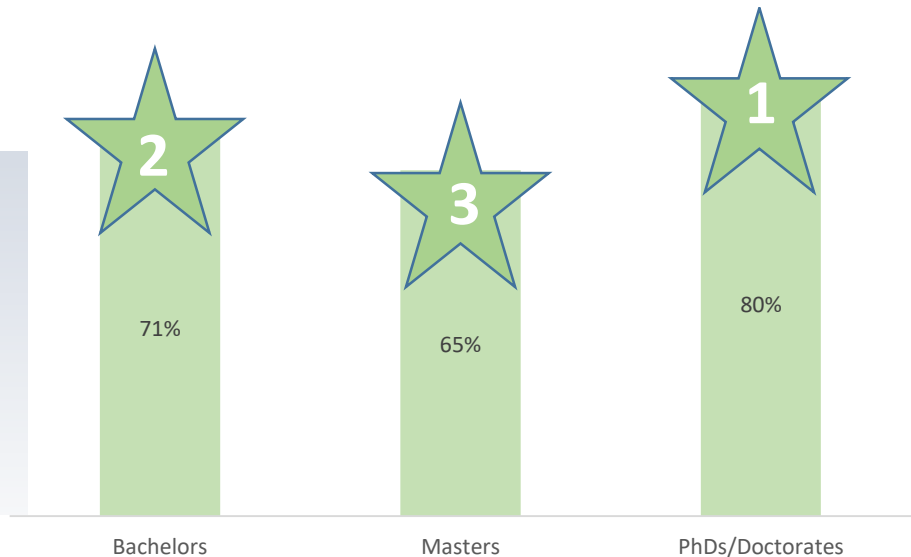


Only a minority choose to work abroad.

PhD holders who would take the same programme again

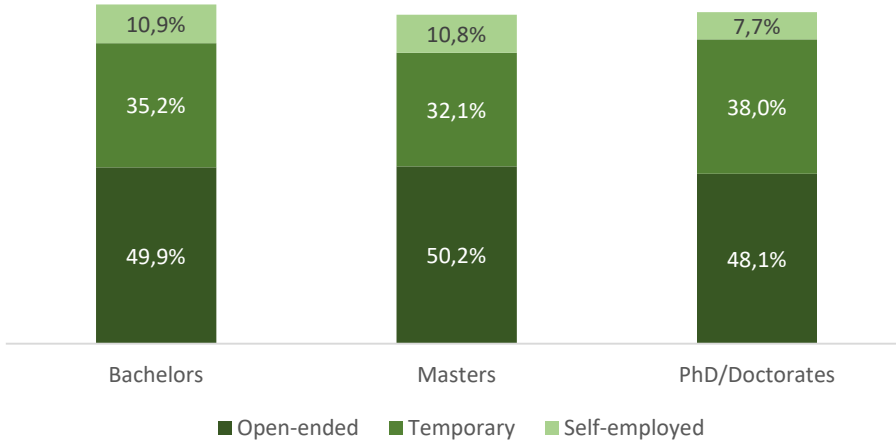
80% of doctoral degree holders would take the same doctoral programme again.

The percentage is lower for Bachelor's and Master's graduates.



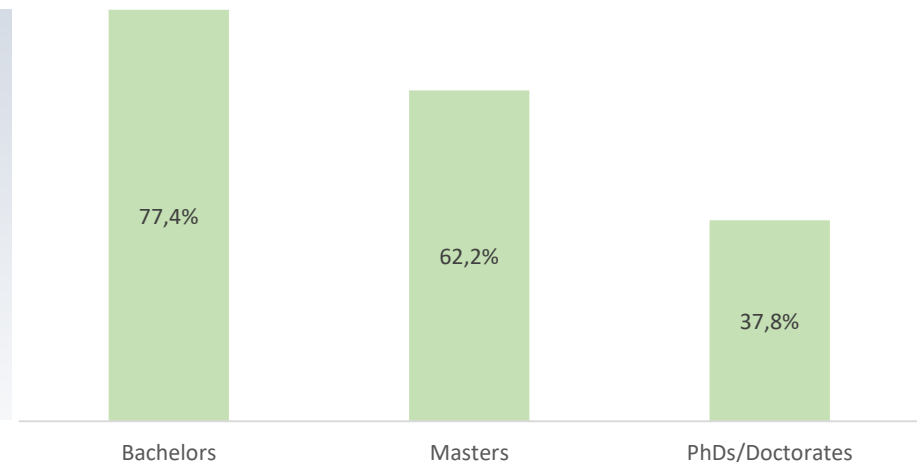
3. Spin-off products. Example: main results

Types of contract



There is very little difference in the % of permanent contracts between the different groups of graduates.

Workers in the private sector

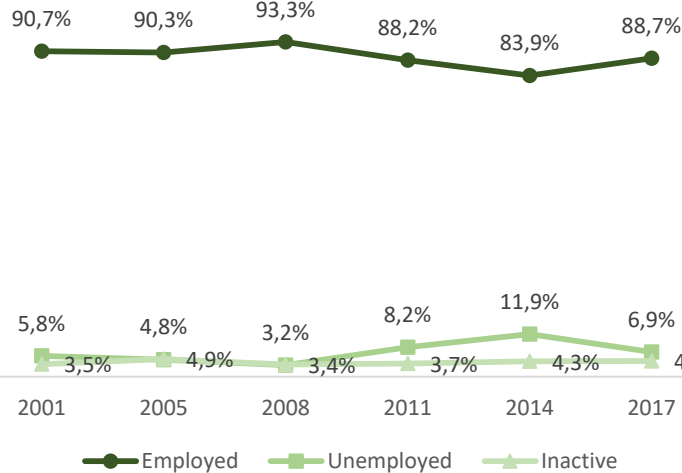


Most graduate employment in the private sector is accounted for by Bachelor's and Master's degree holders.

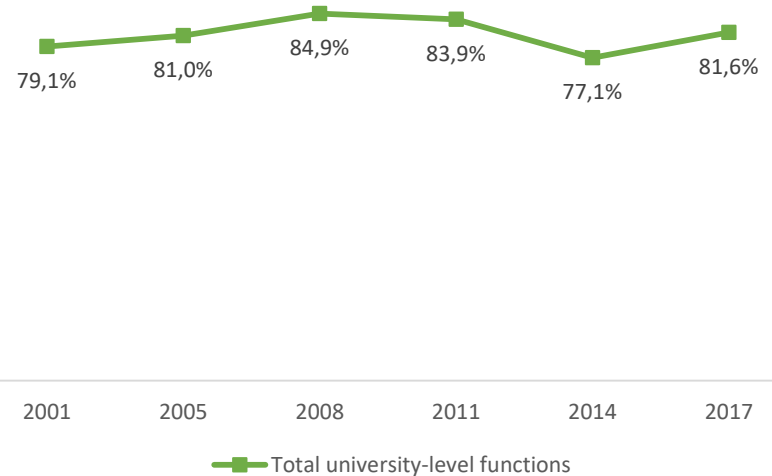
Only a minority of PhD holders work in the private sector, although it is becoming increasingly important.

3. Spin-off products. Example: main results

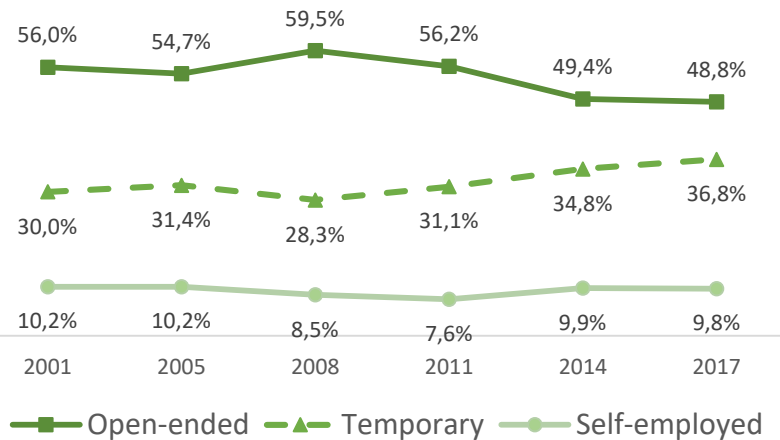
Employment status



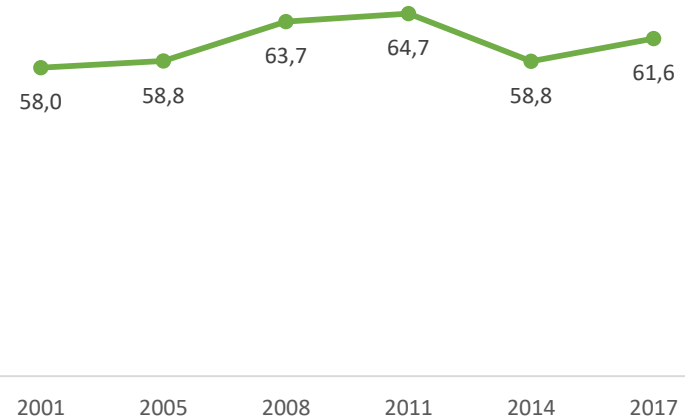
Education-job match



Type of contract



Occupational Quality Index (IQO)



3. Spin-off products. Example: main results

Education-job match

If graduates would take the same degree again

Top 10

	Functions specifically linked to the degree programme
Medicine and dentistry	98,8%
Nursing	96,1%
Healthcare staff	92,3%
IT	89,4%
Pharm., vet., biomedicine	85,1%
Business administration	84,0%
Architecture	83,0%
Teaching	82,2%
Chemistry	79,2%
Arts and design	77,2%

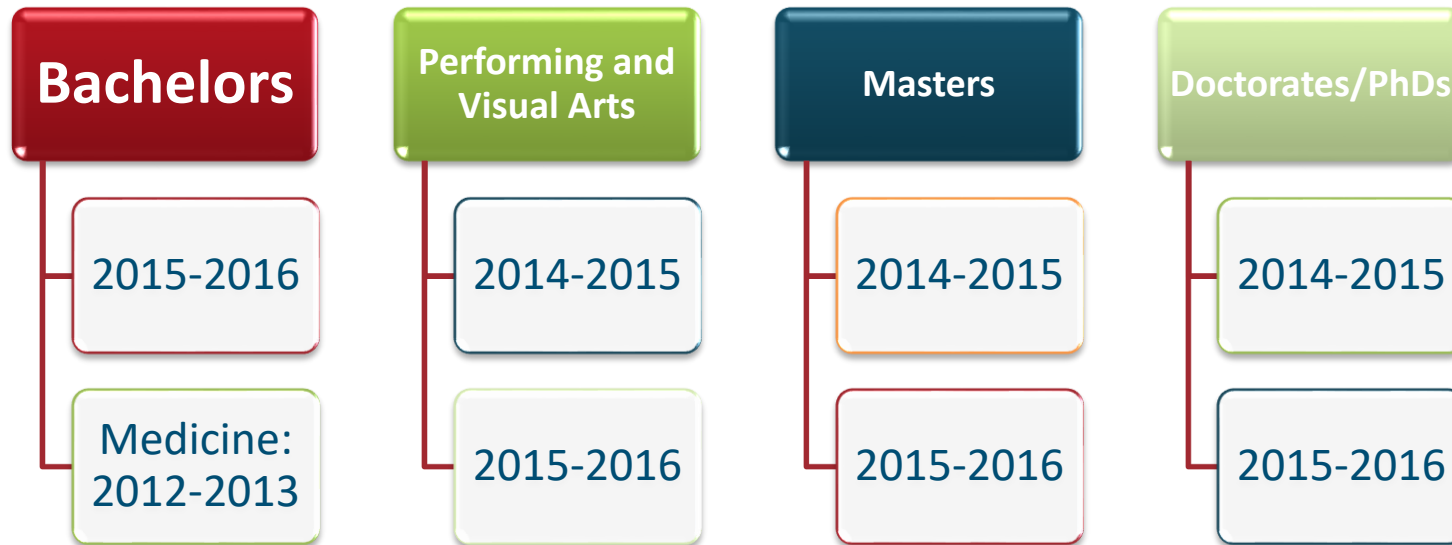
Medicine and dentistry	90,7%
Nursing	87,4%
Teaching	85,7%
Therapy and rehabilitation	82,4%
Physics and mathematics	79,1%
Industrial engineering and organisation	79,0%
IT	76,8%
Agriculture and food production	76,4%
Law	76,2%
30201 Chemistry	75,7%

Bottom 10

Psychology	57,8%
Foreign philologies	57,4%
Labour	50,7%
Earth sciences	48,5%
Politics	45,1%
Forestry	42,1%
Fine arts	41,8%
Sociology, geography	33,7%
History	30,2%
Philosophy and humanities	24,3%

Communication	58,8%
Pedagogy and psychopedagogy	57,1%
Fine arts	57,0%
Earth sciences	56,0%
Politics	55,6%
Construction engineering	53,8%
Labour	51,4%
Civil engineering	50,6%
Tourism	47,8%
Building	47,3%

4. The 2020 survey study. Cohorts covered by the study



Higher education programmes in the Performing Arts and Visual Arts

4. The 2020 survey study. Timetable

1.

- Establish which universities, faculties, programmes will participate in the study (**until 30 September 2018**)

2.

- Signing of agreements and funding commitment (**until 31 March 2019**)

3.

- Database reception for processing, according to the agreed structure (**April-October 2019**)

4.

- Field work: hiring, programming, field work, database reception with results (**April 2019- April 2020**)

The interviewer calls on behalf of the respondent/graduate's university as it is the university that undertakes the survey

4. The 2020 survey study. Timetable

5.

- Database debugging, integration, encryption, and delivery (**May-June 2020**)

6.

- Entry of the data into the multi-lingual platform (**to be established according to demand**)

7.

- Comparative indicators entered into the multi-lingual platform as agreed (**to be established according to demand**)

8.

- Preparation and submission of specialised reports (**to be established according to demand**)

4. The 2020 survey study. The working group

The working group that coordinates the project consists of:

- A **project coordinator**: who is responsible for setting priorities and objectives, coordinating the team's work, time management, handling the legal and economic aspects, and relations with the participants.
- A **data analyst**: who is responsible for setting new challenges in data mining, coordinating data mining and analysis, and supervising and checking the consistency, reliability and robustness of the survey studies. Also responsible for supervising the work of data analyst support staff.
- A **statistician**: who checks the reliability and technical robustness of the data. Responsible for the quality assurance of the field work and data gathered, constructing the data bases that are submitted, as well as the technical calculations for comparative indicators during the study.
- A **computer engineer**: who is responsible for the technical aspects of the framework of the study: management of the different databases in which the survey results are cross-referenced with the variables analysed and the catalogue; and making comparative data and reports available to participants and users using advanced BI instruments.

4. The 2020 survey study. The agreement

Participation in the study is formalised through an agreement, which specifies:

- The specific assignment: degree programmes covered by the study, type of surveys; spin-off products, timetable, etc.
- Responsibility for handling the reception of the database from the participating faculty: this will be either AQU Catalunya or the company hired to carry out the field work (in both cases the legal regulations regarding protection of personal data are complied with)
- The commitments of both parties in the study
- Dissemination of the study
- Completion dates for the study
- Funding

The agreement will need to be implemented at the latest by 31.03.2019

4. The 2020 survey study. Funding

AQU Catalunya is a public entity that does not seek to profit from this project.

The costs agreement will depend on:

- The estimated number of graduates to be interviewed
- The specific assignment

Nevertheless, the most economical version will be to use the existing surveys. This will be more cost effective as it will not be necessary to:

- adapt or design a new instrument,
- coordinate the field work, and
- create a specific section on the multi-lingual platform

Use of this formula is also recommended **to ensure a maximum level of comparability between programmes, which is the most valuable aspect of the instrument.**

The design and/or adaptation of the surveys, platforms and drawing up of specific reports incur a specific cost.



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For more information, please contact:

Maria Giné
Secretary to AQU Catalunya
and the Agency's Governing Board
secretariat@aqu.cat

Telephone: +34 932 688 950