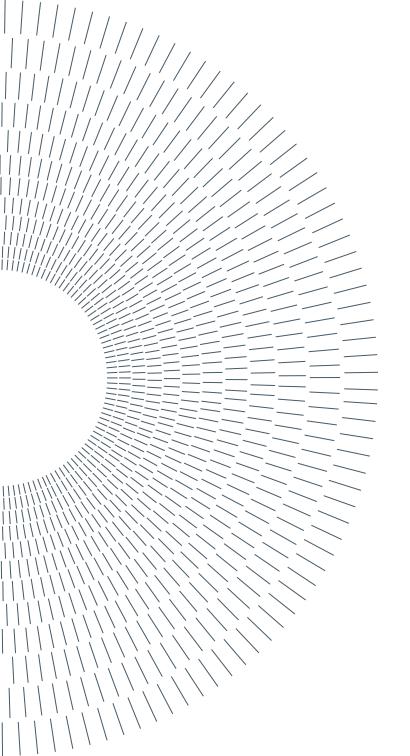
PhD EMPLOYMENT

DATA BOOK 2022







PHD EMPLOYMENT DATA BOOK 2022

FOREWORD

SURVEY METHODOLOGY

PHD EMPLOYMENT

Ph.D employment: 1-2 years after University and research sector Private sector Sector comparison

FOCUS BY AREA

Architecture Design Engineering

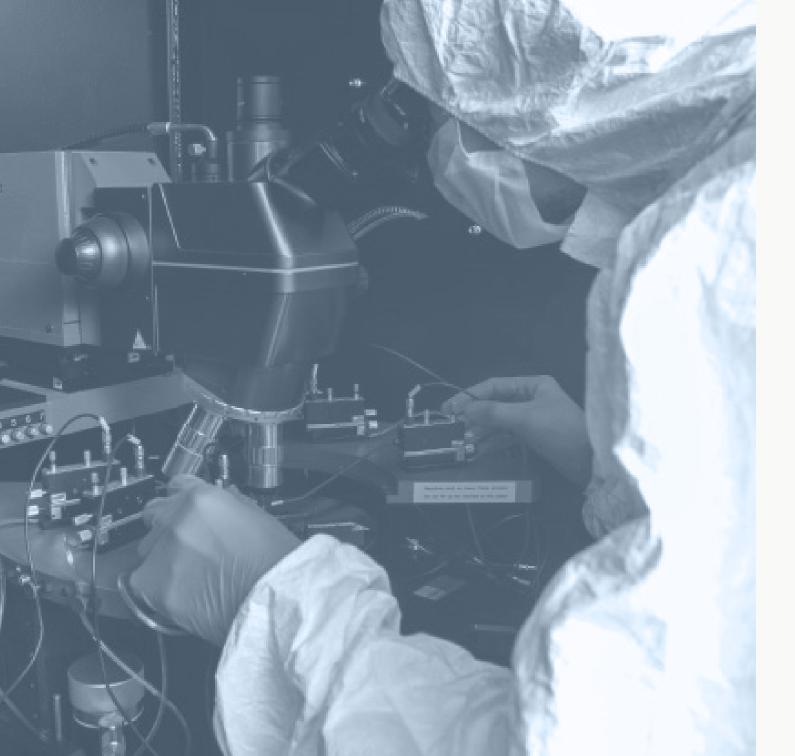
TREND ANALYSIS

Employment rate and salary In detail A gender view

WHO ARE THE PHD GRADUATES?

Ph.D and MSc graduates: a comparison

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SURVEY METHODOLOGY

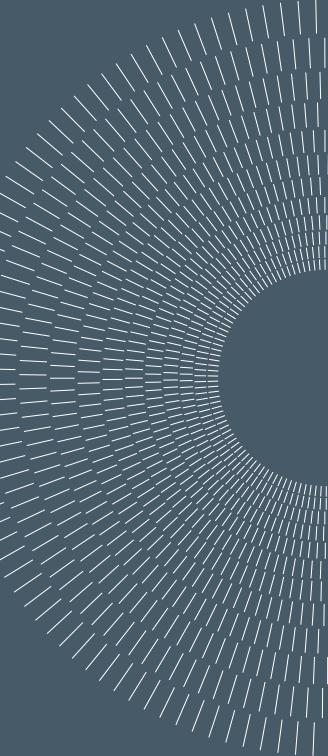
Every two years Politecnico di Milano carries out an **employment survey** on **Ph.D graduates respectively one** and two years after degree completion, in order to verify the effectiveness of their educational path in the world of work and to address the right professional guidance purposes.

The present survey was conducted between January and February 2022 through mixed methodology (CAWI: online and CATI: phone). The Ph.Ds were asked to answer a multiple -choice survey of about 20 questions.

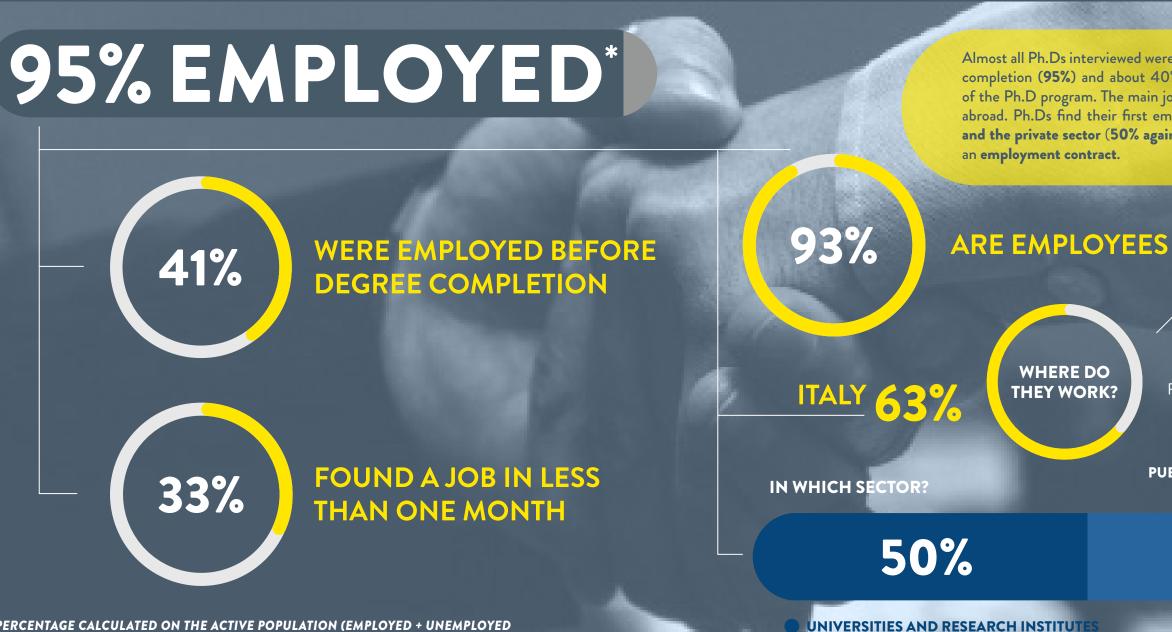
Employement Survey on Ph.D graduates 1-2 years after degree completion	CAWI: online CATI: by phone
ITALIAN	SAMPLE: PHD CLASS OF 2019/2
386	Obtained their Ph.D in the two-yea
293	Answered the survey
76%	Response rate



PHD EMPLOYMENT



PHD EMPLOYMENT: 1-2 YEARS AFTER



* PERCENTAGE CALCULATED ON THE ACTIVE POPULATION (EMPLOYED + UNEMPLOYED IN SEARCH OF A NEW OR FIRST EMPLOYMENT) 10

Almost all Ph.Ds interviewed were employed within 1-2 years from degree completion (95%) and about 40% were already working before the end of the Ph.D program. The main job market is Italy, while 37% chose to go abroad. Ph.Ds find their first employment in both the university sector and the private sector (50% against 44%). Over 90% of the sample hold

37% ABROAD

They go abroad:

6%

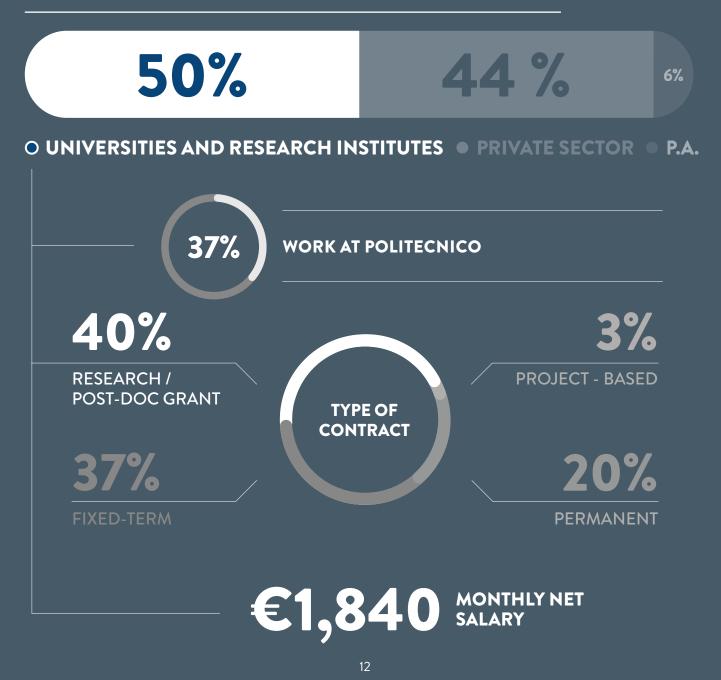
For a better salary 49% For a lack of opportunities at home **41%** For better career prospects **41%**

PUBLIC AUTHORITIES AND NON PROFIT ORGANIZATIONS

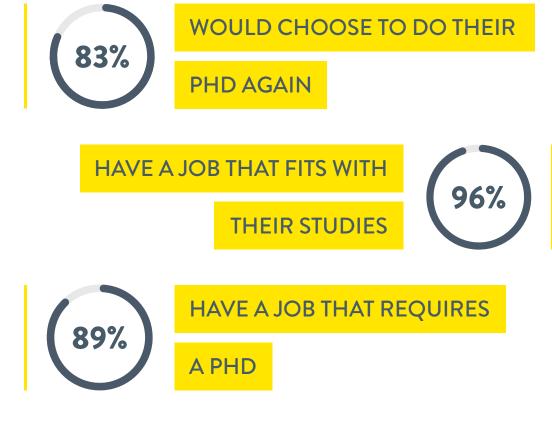


PRIVATE SECTOR

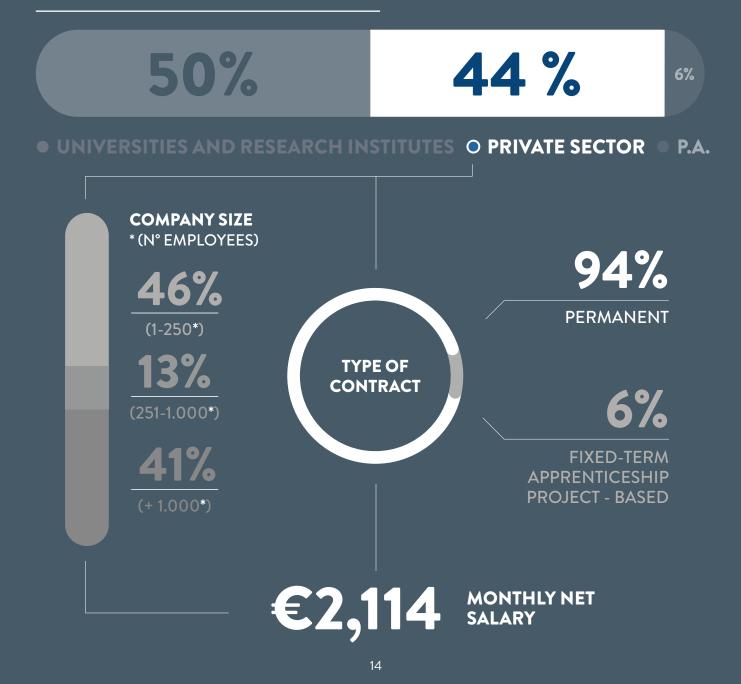
PHD EMPLOYMENT: UNIVERSITY AND RESEARCH SECTOR



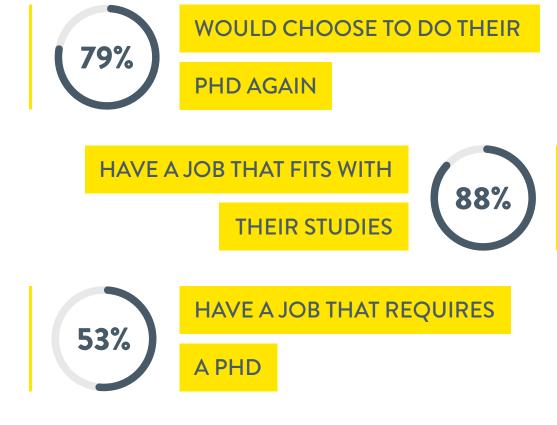
Politecnico di Milano is the main employer for those who work in universities and research institutes (37%). Contracts in the university sector are less stable than the private sector, salaries reach 1,800 net euros per month. Satisfaction is very high: 83% of Ph.Ds employed in universities and research institutes would enrol in the program again; 96% say to have a job that fits with the studies; 89% say that their degree is necessary to perform their job.



PHD EMPLOYMENT: PRIVATE SECTOR



The private sector offers stable contracts (94% hired permanently) and good salaries to new Ph.Ds (about monthly 270 euros more than in Research and University sector). They tend to find employment either in small companies (46%) or big multinationals (41%). Good results in term of satisfaction: 88% have a job that fits with the studies and over 50% say that their degree a Ph.D is necessary to perform their job.



PHD EMPLOYMENT: SECTOR COMPARISON

50% UNIVERSITIES AND RESEARCH		44% PRIVATE SECTOR
TYPE OF CONTRACT 40	RESEARCH / POST-DOC GRANT 37% FIXED - TERM	94% PERMANENT
MONTHLY NET SALARY	€1,840	€2,114
WOULD CHOOSE TO DO THEIR PHD AGAIN	83%	79%
HAVE A JOB THAT FITS WITH THEIR STUDIES	96%	88%
HAVE A JOB THAT REQUIRES A PHD	89%	53%





MONTHLY NET SALARY

WOULD CHOOSE TO DO THEIR PHD AGAIN

HAVE A JOB THAT FITS WITH THEIR STUDIES

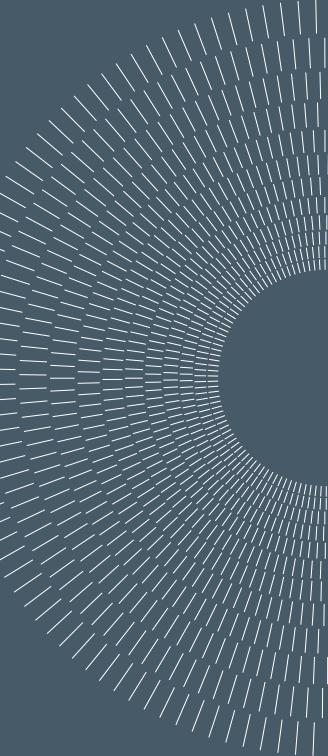
HAVE A JOB THAT **REQUIRES A PHD**

FOCUS BY AREA

ARCHITECTURE

DESIGN

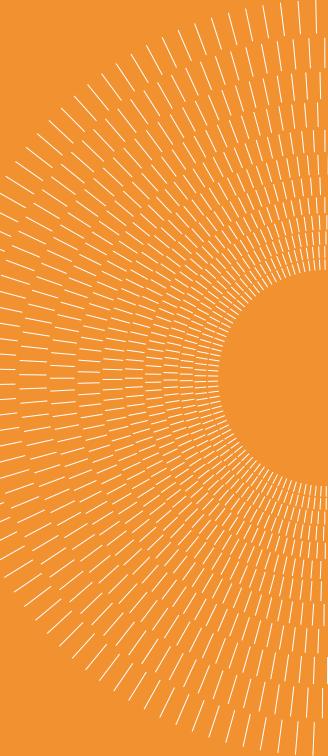
ENGINEERING



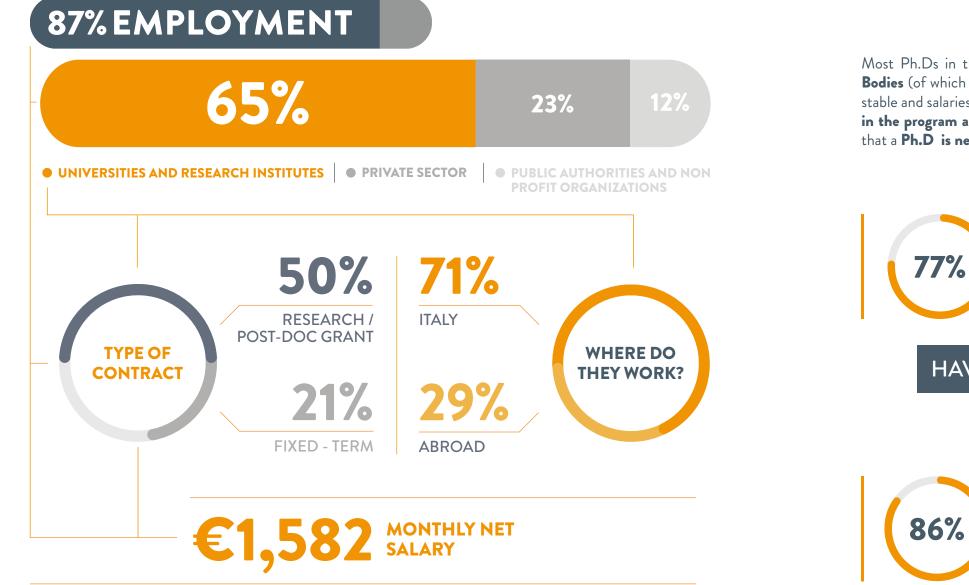
ARCHITECTURE

- PHD COURSES

- Architecture, Built Environment and Construction Engineering
- Architectural, Urban and Interior Design
- Preservation of the Architectural Heritage
- Urban planning, Design and Policy



ARCHITECTURE: UNIVERSITY AND RESEARCH SECTOR



SAMPLE FOR ARCHITECTURE: 62 people interviewed, of which 52 employed.

Most Ph.Ds in the Architectural Area (65%) work in Universities or Research Bodies (of which 43% at the Politecnico) in Italy (71%). Their contracts are not as stable and salaries low. They are generally satisfied with their path: **77% would enrol** in the program again; 96% have a job that fits with the studies and 86% declare that a **Ph.D** is necessary for their work.

PHD AGAIN

A PHD

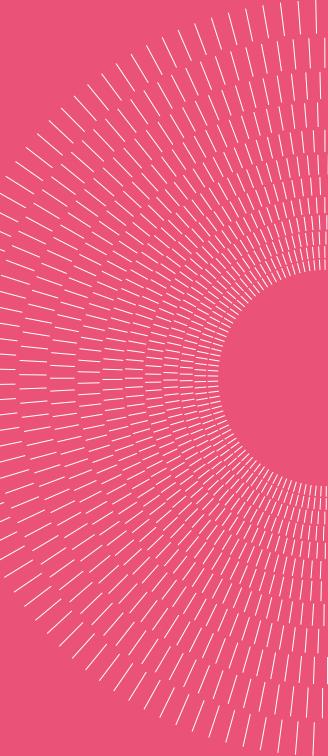
WOULD CHOOSE TO DO THEIR



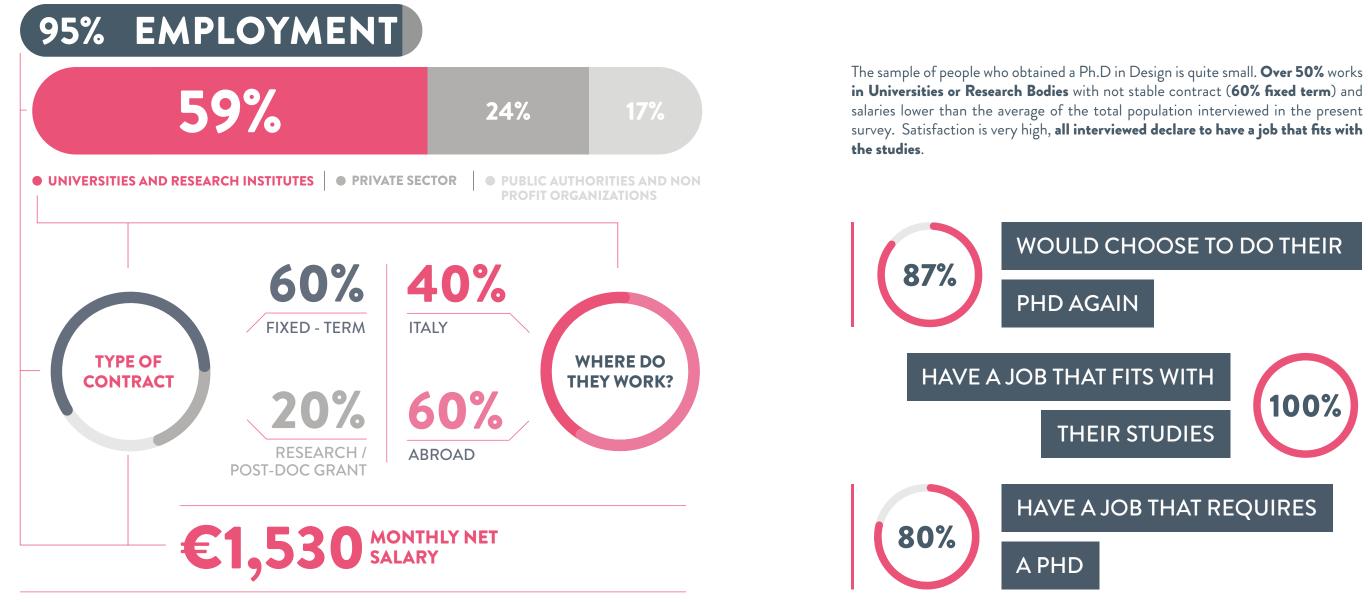
HAVE A JOB THAT REQUIRES

DESIGN

- PHD COURSE
- Design



DESIGN: UNIVERSITY AND RESEARCH SECTOR



SAMPLE FOR DESIGN: 23 people interviewed, of which 20 employed.



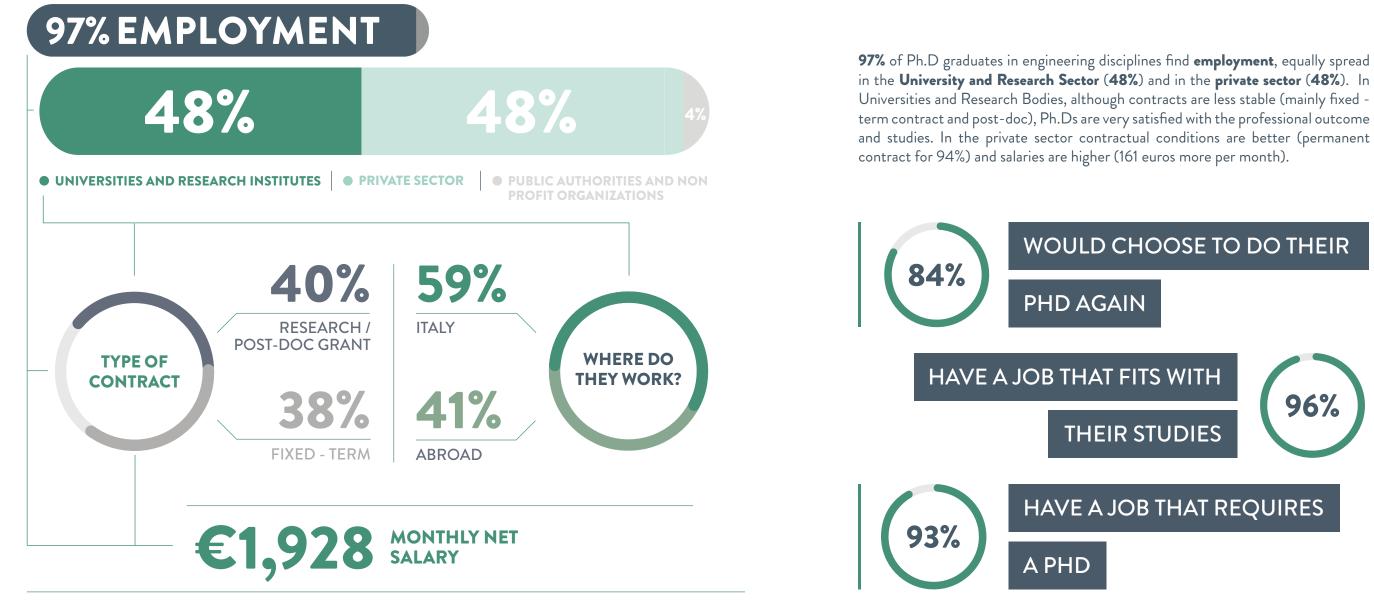
ENGINEERING

- PHD COURSES

- Aerospace Engineering
- Bioengineering
- Electrical Engineering
- Energy and Nuclear Science and Technology
- Environmental and Infrastructure Engineering
- Industrial Chemistry and Chemical Engineering
- Information Technology
- Management Engineering
- Materials Engineering
- Mathematical Models and Methods in Engineering
- Mechanical Engineering
- Physics
- Structural Seismic and Geotechnical Engineering



ENGINEERING: UNIVERSITY AND RESEARCH SECTOR



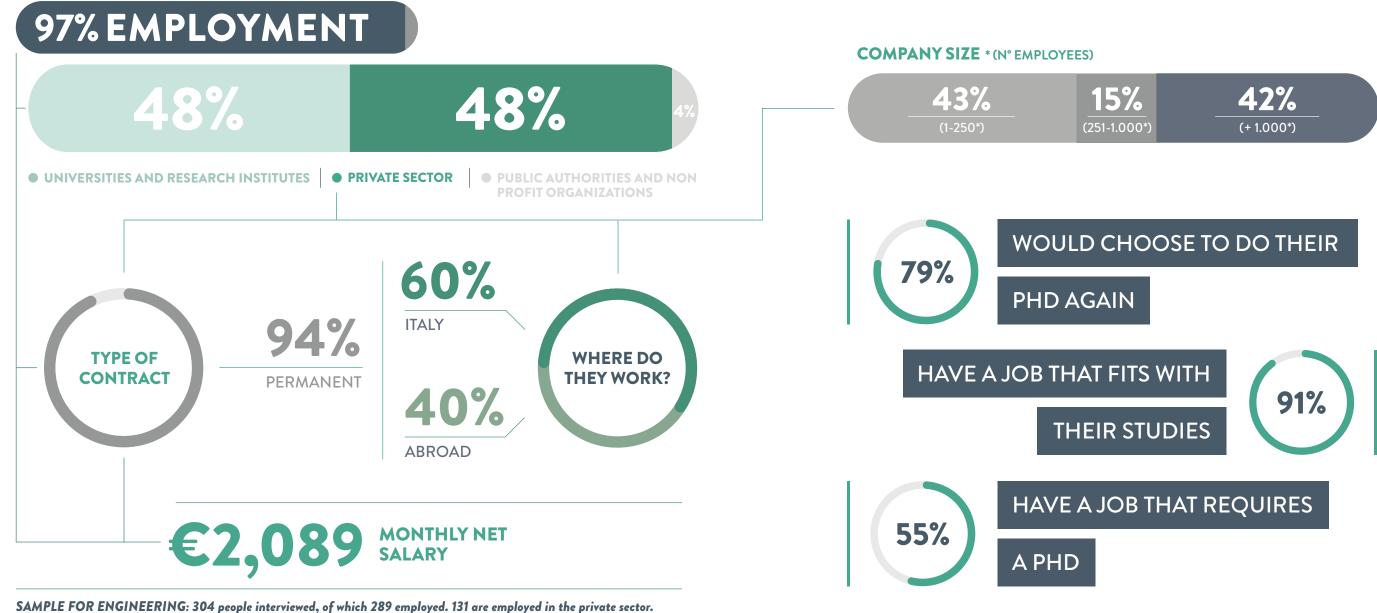
SAMPLE FOR ENGINEERING: 304 people interviewed, of which 289 employed. 131 are employed in the university and research sector.

WOULD CHOOSE TO DO THEIR



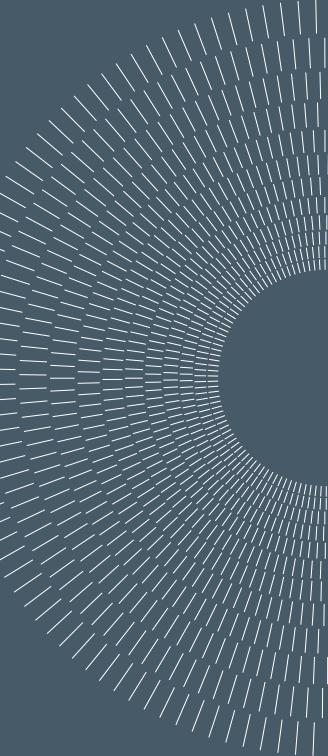
HAVE A JOB THAT REQUIRES

ENGINEERING: PRIVATE SECTOR





TREND ANALYSIS



TREND ANALYSIS: EMPLOYMENT RATE AND SALARY





TREND ANALYSIS: IN DETAIL

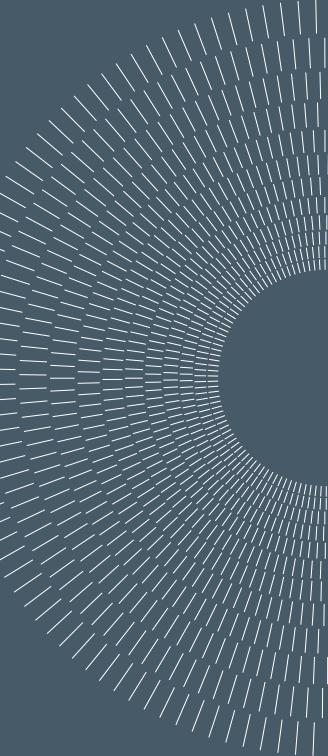




* Only 3 respondents who represent 50% of the initial target. The sample is too small for this data to be considered representative.

WHO ARE THE PHD

GRADUATES?



PHD AND MSC GRADUATES: A COMPARISON







2022 Employment survey on PhDs who graduates at Politecnico di Milano in 2019 and 2020. The survey is carried out by the Career Service in collaboration with the Statistical Analysis, Evaluation and Accreditation support office and the Alumni Association of Politecnico di Milano