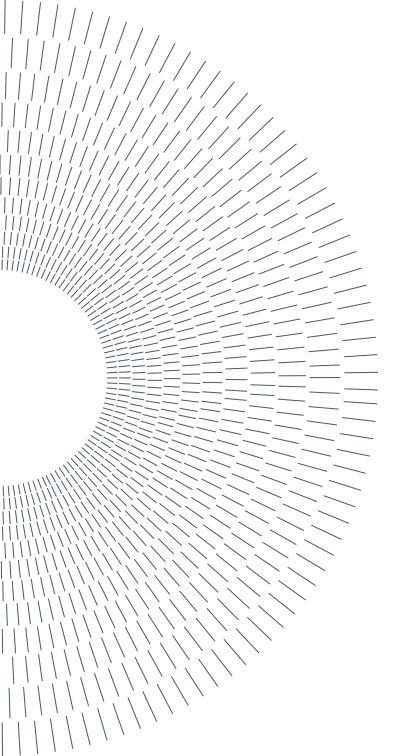
PhD EAPLOYAEN DATA BOOK 2024







PHD EMPLOYMENT DATA BOOK 2024

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

SOFT SKILLS

University Architecture Design Engin<u>eering</u>

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

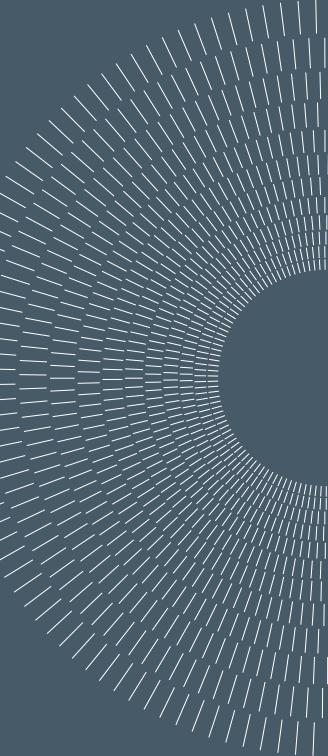
Every two years Politecnico di Milano carries out an employment survey on Ph.D graduates, respectively one and two years after degree completion, in order to verify the effectiveness of their educational path in the world of work and to address the best professional guidance purposes.

The present survey was conducted between January and February 2024 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. graduates 1-2 years after degree completion	D CAWI: online & CATI: by phone
ITALIAN	SAMPLE: PHD CLASS OF 2021/
518	Obtained their Ph.D in the two-yea
328	Answered the survey
63%	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)

UNIVERSITIES AND RESEARCH INSTITUTES

All Ph.Ds interviewed were employed within 1-2 years from degree completion and about 40% were already working before the end of the

The main job market is Italy, while 28% go abroad. Ph.Ds find their first employment both in universities/research institutes and the private

28% ABROAD

They go abroad:

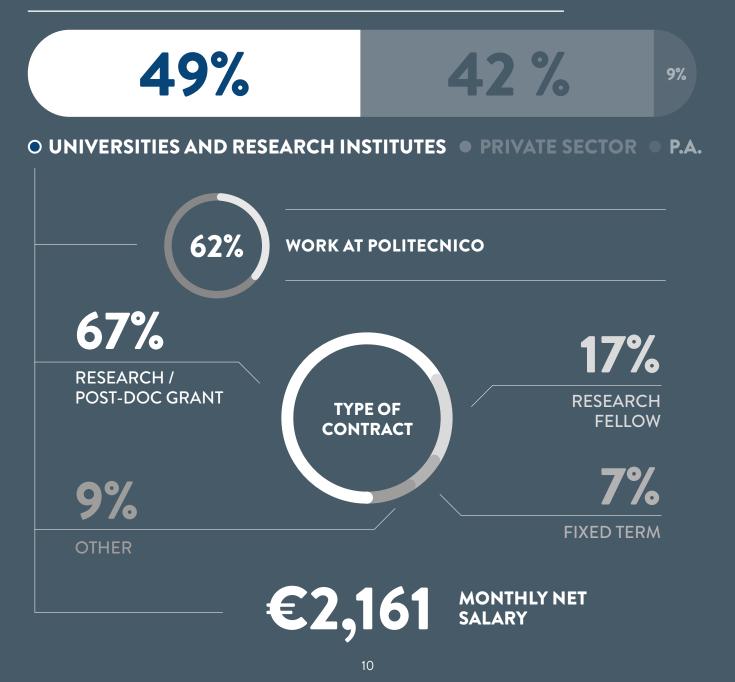
For a lack of opportunities at home	29%
For a better salary	26%
For personal / family reasons	22%
For better career prospects	19%

PUBLIC AUTHORITIES AND NON 9% **PROFIT ORGANIZATIONS**



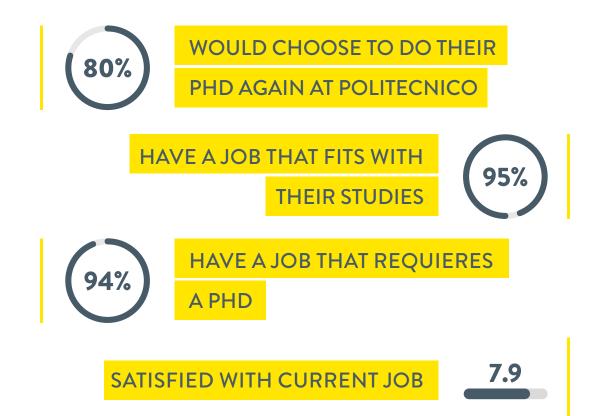


PHD EMPLOYMENT: UNIVERSITY AND RESEARCH SECTOR

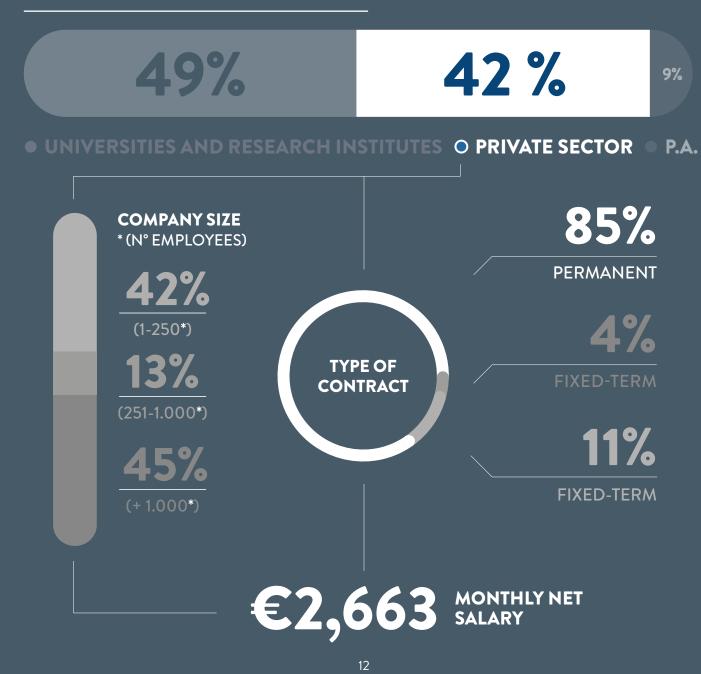


Politecnico di Milano is the main employer for those who work at universities and research institutes (62%).

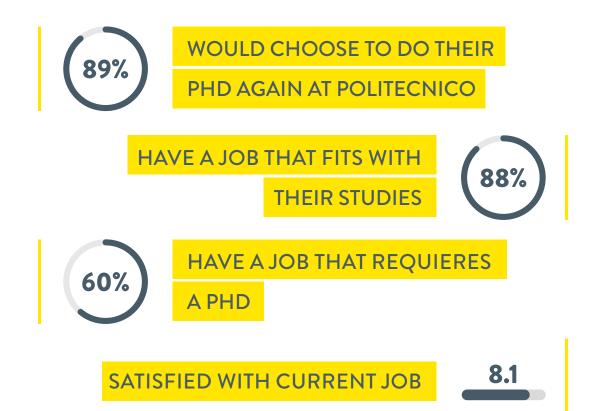
In the university sector, salaries are lower than the private sector. They reach 2,161 net euros per month, the highest value recorded to date. Satisfaction is also very high.



PHD EMPLOYMENT: PRIVATE SECTOR



Stable contracts and good salary in the private sector. Within the private sector, Ph.Ds find employment either in small companies or large multinationals. Overall, all respondents are satisfied with the Politecnico and the PhD program. The proportion of those who say their job requires a Phd is growing (+7% compared to prevous survey).





49% UNIVERSITIES AND RESEARCH INSTITUTES		42% PRIVATE SECTOR
TYPE OF CONTRACT 67%	RESEARCH / POST-DOC GRANT 17% RESEARCH FELLOW	85% PERMANENT
MONTHLY NET SALARY	€2,161	€2,633
WOULD CHOOSE TO DO THEIR PHD AGAIN	80%	89%
HAVE A JOB THAT FITS WITH THEIR STUDIES	95%	88%
HAVE A JOB THAT REQUIRES A PHD	94%	60%
SATISFIED WITH CURRENT JOB (SCALE 1-10)	7.9	8.1





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**

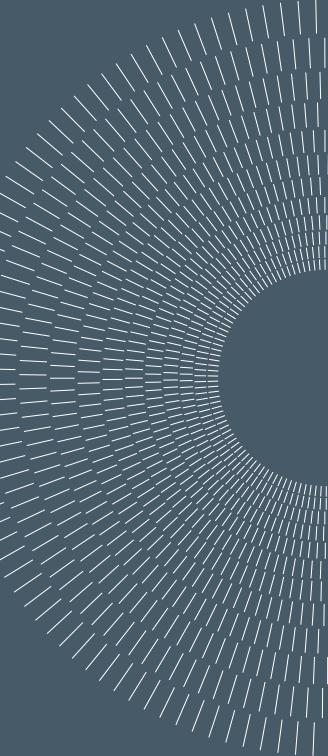
SATISFIED WITH CURRENT JOB (SCALE 1-10)

FOCUS BY AREA

ARCHITECTURE

DESIGN

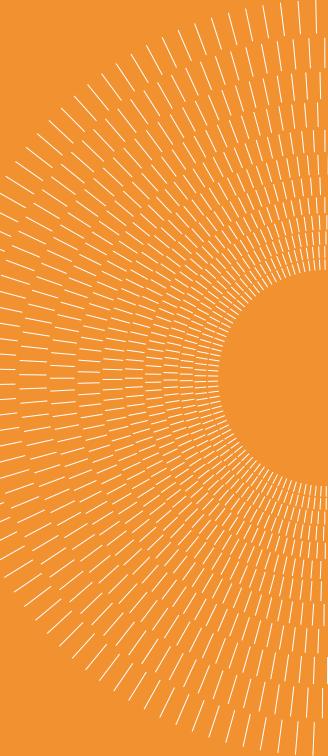
ENGINEERING



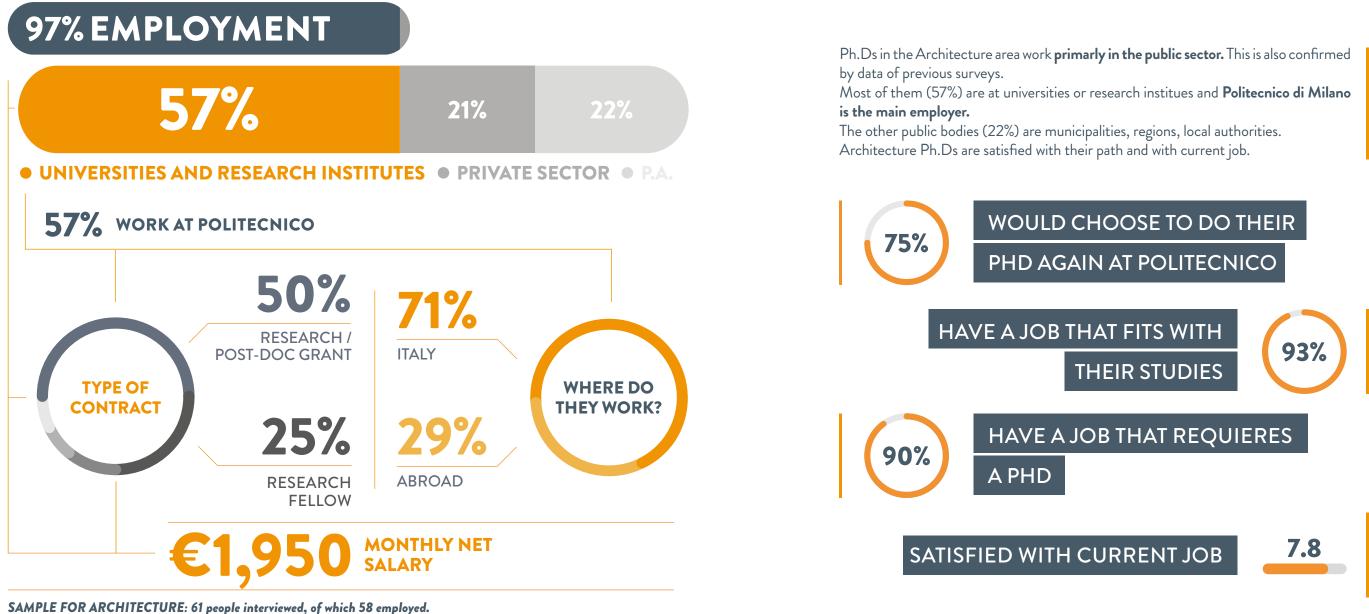
ARCHITECTURE

- PHD COURSES

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

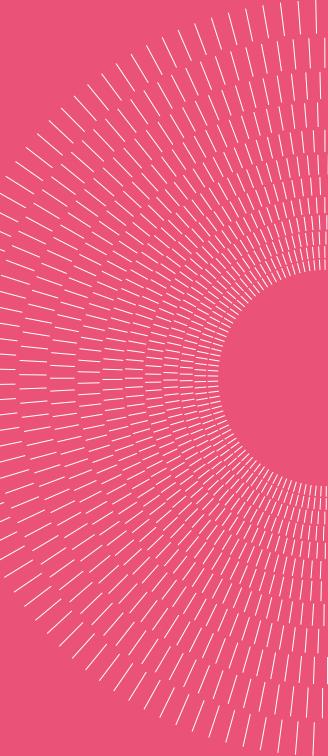


ARCHITECTURE: UNIVERSITY AND RESEARCH SECTOR

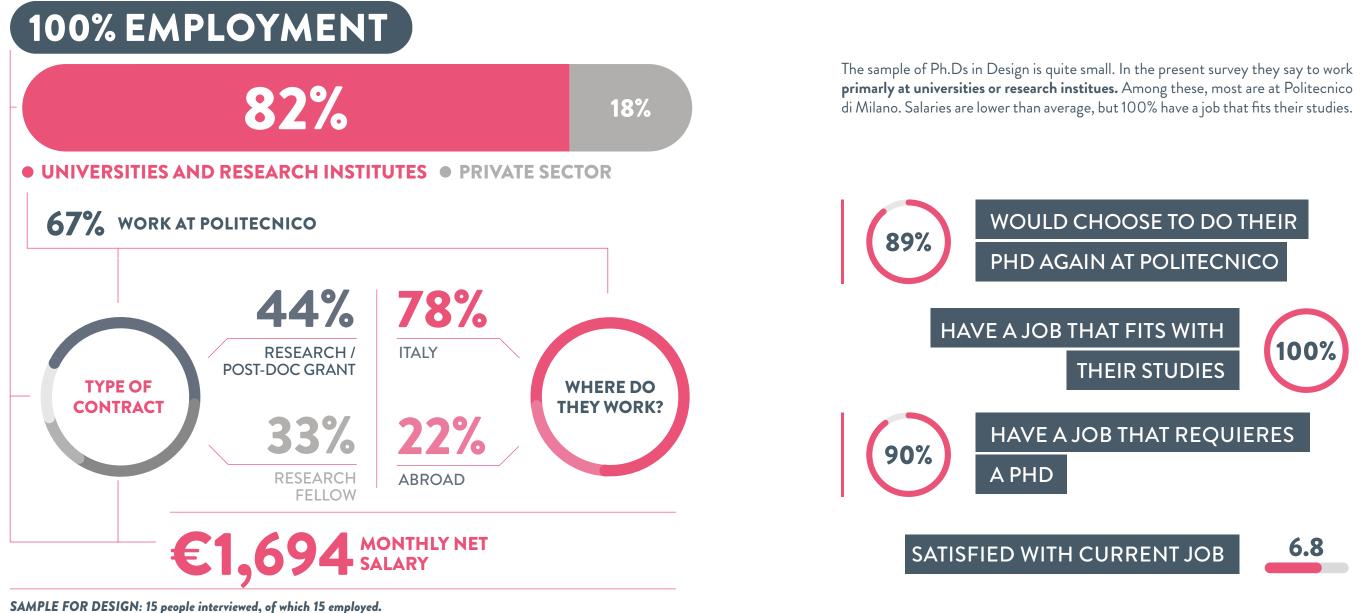


DESIGN

- PHD COURSE
- Design



DESIGN: UNIVERSITY AND RESEARCH SECTOR



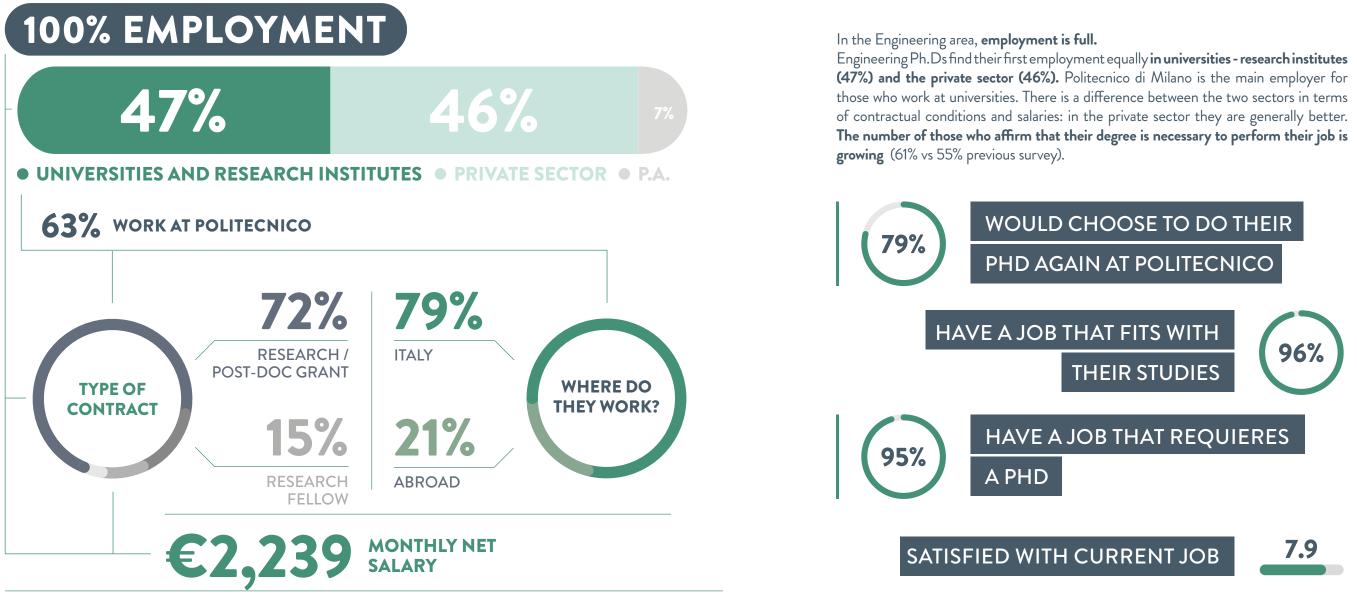
ENGINEERING

- PHD COURSES

- Aerospace Engineering
- Bioengineering
- Data Analytics And Decision Sciences
- 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

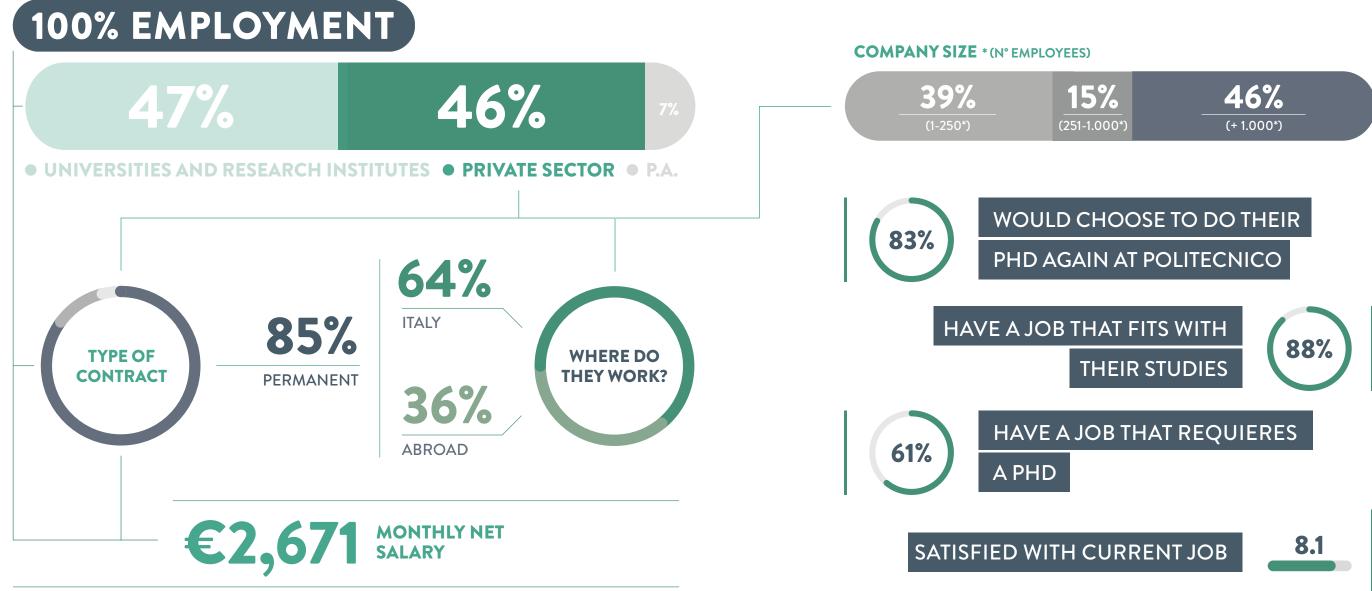


ENGINEERING: UNIVERSITY AND RESEARCH SECTOR



SAMPLE FOR ENGINEERING: 327 people interviewed, of which 327 employed. 141 are employed in the university and research sector.

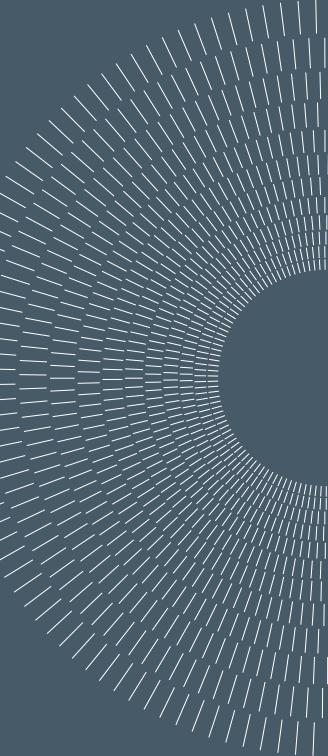
ENGINEERING: PRIVATE SECTOR



SAMPLE FOR ENGINEERING: 327 people interviewed, of which 327 employed. 140 are employed in the private sector.

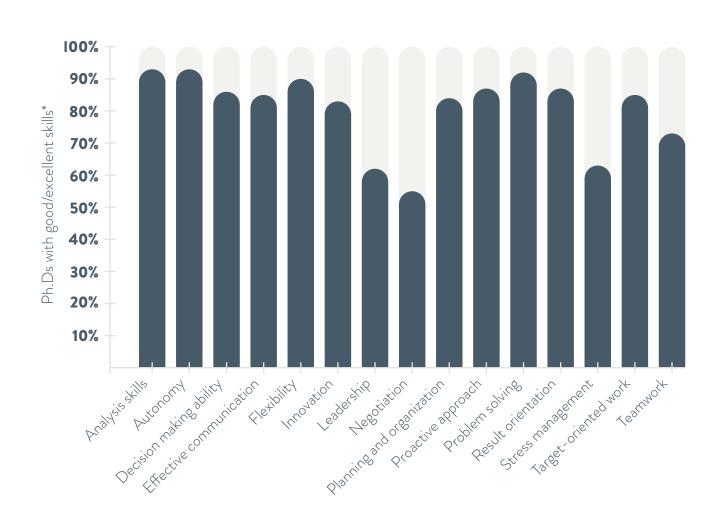


SOFT SKILLS



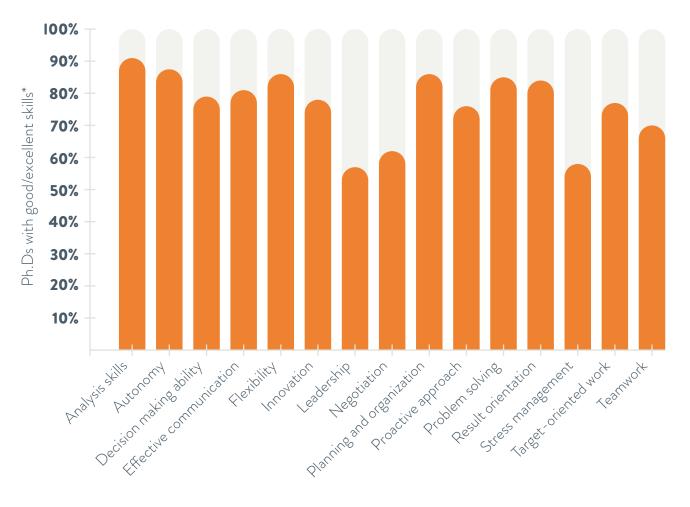
DEVELOPMENT OF SOFT SKILLS

ARCHITECTURE



UNIVERSITY

^{*} number of PhD graduates who perceive good/excellent skills



* number of PhD graduates who perceive good/excellent skills

Imovation

Leadership

Flexibility

* number of PhD graduates who perceive good/excellent skills

Problemsolving

Target oriented work

reamwort

Stiessmanagement

100% 90% with good/excellent skills* 80% 70% 60% 50% 40% Ph.Ds \ 30% 20% 10% Effective communication Decision native ability Planine and oreanization Arabisskills Proactive approach Fletbilty Innovation Leadership

* number of PhD graduates who perceive good/excellent skills

ENGINEERING

37

100%

90%

80%

70%

60%

50%

40%

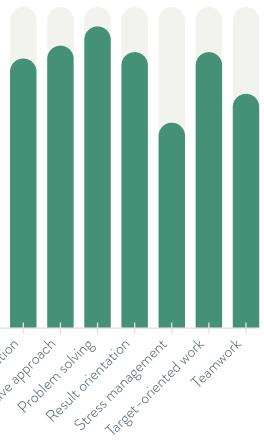
30%

20%

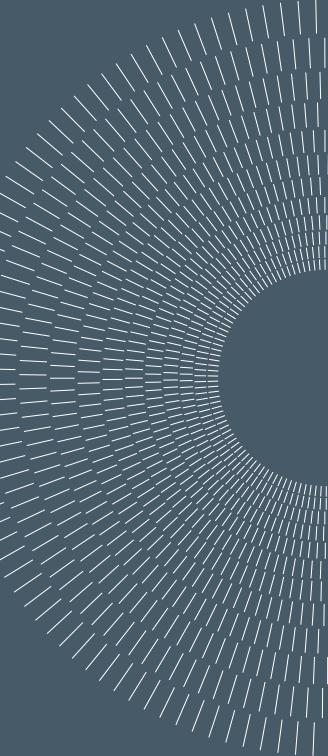
10%

Arabisskills

Ph.Ds with good/excellent skills*



TREND ANALYSIS



TREND ANALYSIS: EMPLOYMENT RATE AND SALARY

2022 2020 Ph.D 17/18 Ph.D 19/20 97% 95% €2,052 €1,944

EMPLOYMENT RATE

€)

The employment rate of Politecnico Ph.D graduates has risen, reaching a record hight of 99% Ph.Ds employed within 1-2 years from degree completion. This positive trend is accompanied by a salary increase (+14% vs survey 2020, +21% vs survey 2022).

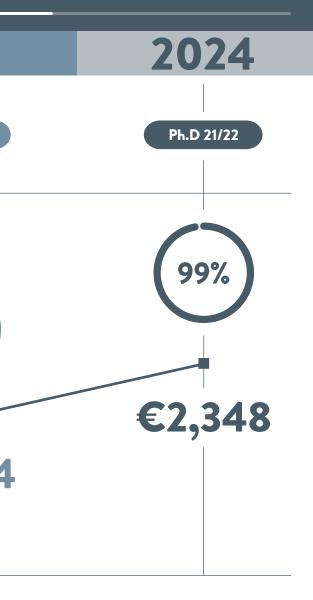
Moreover, in 2024 employment survey, we may observe an increase in the number of Ph.Ds employed in Italy.

GENDER VIEW

In the present survey, the employment rates of men and women are equal.

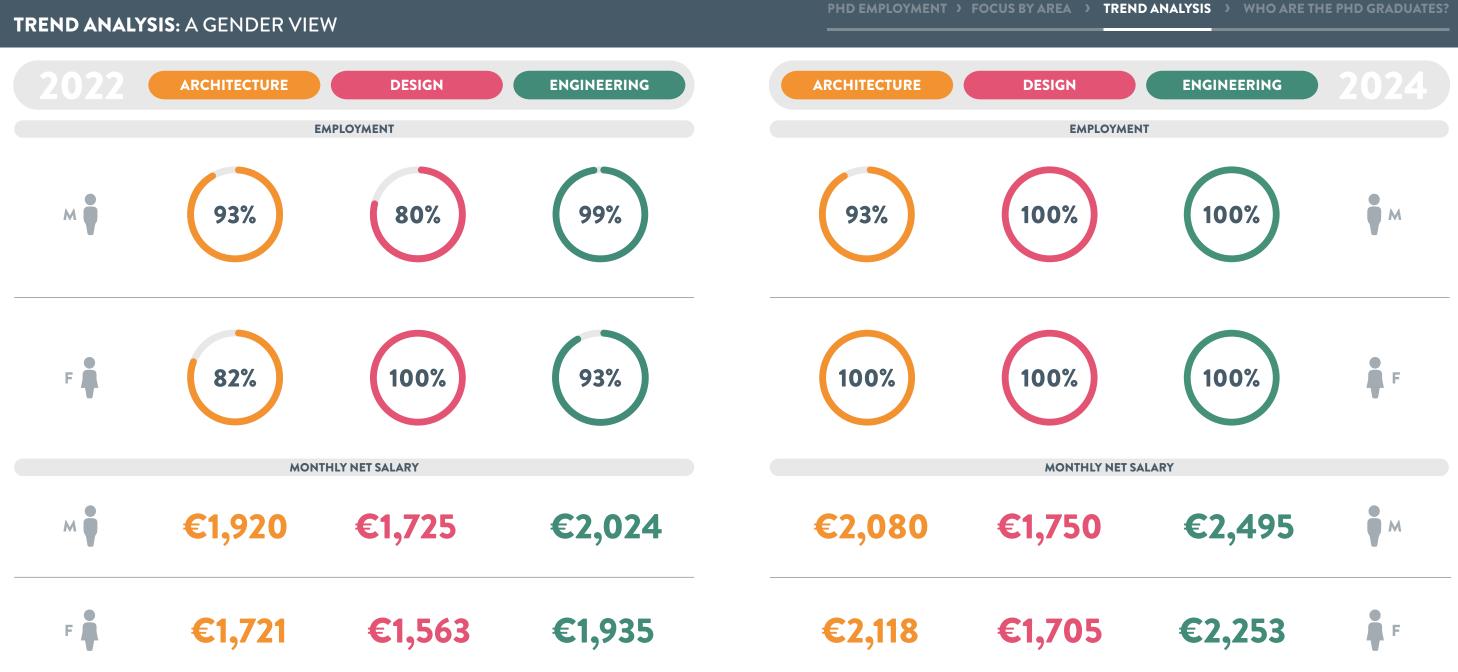
Salaries increase for all disciplines but differences in salaries remain mainly in the engineering area, although there is no difference in percentage between those employed in universities and private sector





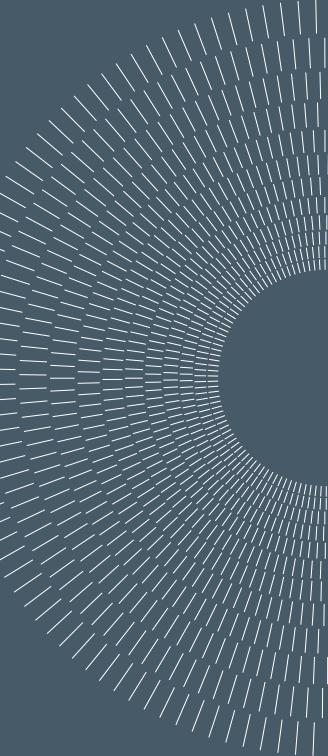
MONTHLY NET SALARY





WHO ARE THE PHD

GRADUATES?



PHD AND MSC GRADUATES: A COMPARISON







62%

26% INTERNATIONAL

6,200 Master of Science graduates



2024 Employment survey on PhDs who graduates at Politecnico di Milano in 2021 and 2022. 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

