

POLITECNICO DI MILANO

B 23



POLITECNICO
MILANO 1863

POSTGRADUATE PROGRAMME IN MECHANICAL ENGINEERING

Open Day

 www.mecheng.polimi.it

 [@mechengpolimi](https://www.instagram.com/mechengpolimi)

POLITECNICO DI MILANO

Over **1.300** Faculty and
1.200 staff members
and lab technicians



Industrial and Information Engineering
Civil and Environmental Engineering
Architecture
Design

4 Schools

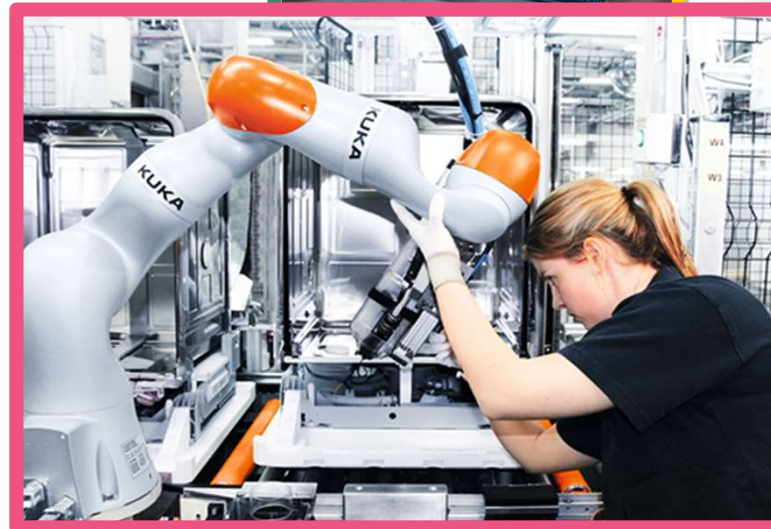


Over **42.000**
students



12
Departments

MECHANICAL ENGINEER, AN EVER-EVOLVING PROFESSION



JOB OPPORTUNITIES WORLD EDITION



Mechanical Design
Engineer

APPLE - Santa Clara, CA



Field Service Engineer

NIKON PRECISION EUROPE
Maynooth, Ireland



Sr. Mechanical Engineer

AMAZON - Seattle, WA, US



ASTON MARTIN

Controls Manager -
Powertrain Calibration
and Control

ASTON MARTIN -
Wellesbourne, United Kingdom



Mechanical Engineer
(Starlink)

SPACEX - Redmond, WA



R&D
ROBOTICS TECHNOLOGY
MECHATRONICS
MANUFACTURING
VIRTUAL REALITY PRODUCTION
3D PRINTING
SUSTAINABILITY
TRANSPORTATION
MOBILITY
EXCELLENCE
DIGITAL
INNOVATION

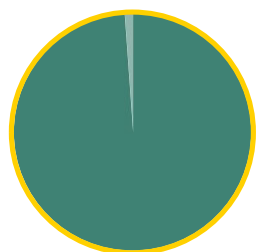


WHY ENROLLING IN THE
POSTGRADUATE
PROGRAMME IN
MECHANICAL ENGINEERING?

EMPLOYMENT STATISTICS

MASTER OF SCIENCE IN MECHANICAL ENGINEERING AT POLITECNICO DI MILANO

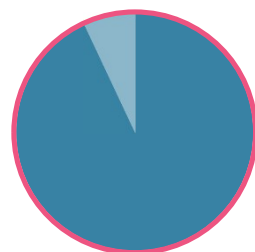
EMPLOYMENT RATE*



94%

* 1 year after graduation, except Ph.D. students

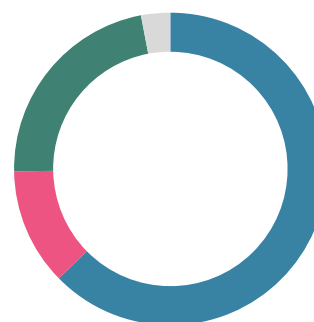
EMPLOYED WITHIN 6 MONTH*



91%

* Percentage calculated on graduates employed within a year

TYPE OF CONTRACT*



Indefinite contract	62%	●
Fixed-term contract	14%	●
Apprenticeship	20%	●
Internship	1%	●
Other	3%	●

* Project-based / Occasional collaboration

TOP 5 INDUSTRIES

Mechanics and Installation	19%
Automotive	17%
Metallurgy and Metalworking	9%
Aerospace and Aeronautics	6%
Business Consultancy	6%

NET MONTHLY INCOME

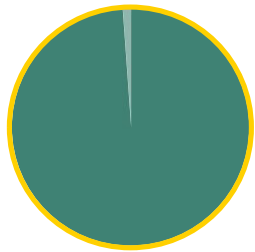
€ 1.716

EMPLOYMENT STATISTICS

MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

AT POLITECNICO DI MILANO

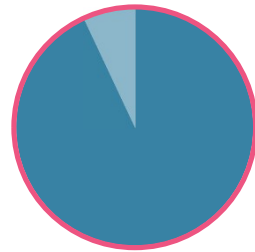
EMPLOYMENT RATE*



97%

* 1 year after graduation, except Ph.D. students

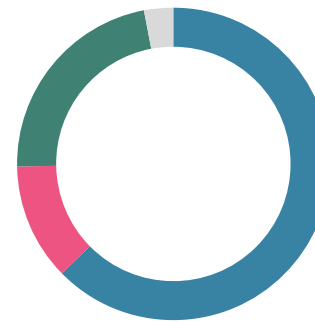
EMPLOYED WITHIN 6 MONTH*



90%

* Percentage calculated on graduates employed within a year

TYPE OF CONTRACT*



Indefinite contract	79%	●
Fixed-term contract	10%	●
Apprenticeship	8%	●
Internship	2%	●
Other	1%	●

* Project-based / Occasional collaboration

TOP 5 INDUSTRIES

Aerospace and Aeronautics	33%
Automotive	10%
Business Consultancy	10%
Energy	5%
Oil & gas	5%

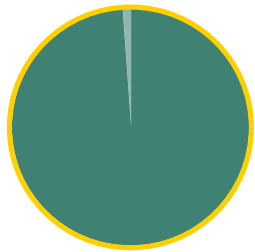
NET MONTHLY INCOME

€ 1.629

EMPLOYMENT STATISTICS

MASTER OF SCIENCE IN SPACE ENGINEERING AT POLITECNICO DI MILANO

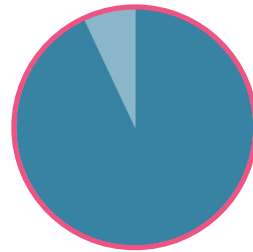
EMPLOYMENT RATE*



92%

* 1 year after graduation, except Ph.D. students

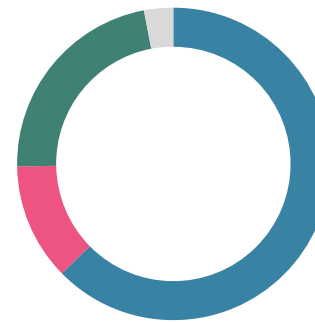
EMPLOYED WITHIN 6 MONTH*



80%

* Percentage calculated on graduates employed within a year

TYPE OF CONTRACT*



Indefinite contract	66%	●
Fixed-term contract	16%	●
Apprenticeship	7%	●
Internship	2%	●
Other	9%	●

* Project-based / Occasional collaboration

TOP 5 INDUSTRIES

Aerospace and Aeronautics	24%
Information Science	7%
Business Consultancy	7%
IT Consultancy	7%
Mechanics and Installation	5%

NET MONTHLY INCOME

€ 1.769

QS WORLD UNIVERSITY RANKINGS

AMONG THE TOP UNIVERSITIES AROUND THE GLOBE, POLITECNICO DI MILANO RANKS:

- 1ST IN ITALY;
- 6TH IN EUROPE
- 13TH IN THE WORLD.

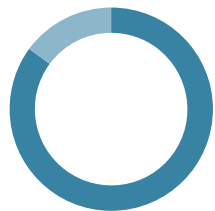
ALSO IN THE TOP 10: MIT, STANFORD UNIVERSITY, NATIONAL UNIVERSITY OF SINGAPORE, HARVARD UNIVERSITY, NANYANG TECHNOLOGICAL UNIVERSITY, UNIVERSITY OF OXFORD.

#RANK 2022	UNIVERSITY	LOCATION EUROPE
3	UNIVERSITY OF CAMBRIDGE	UK
5	DELFT UNIVERSITY OF TECHNOLOGY	NL
8	ETH ZURICH	UK
10	IMPERIAL COLLEGE LONDON	UK
13	POLITECNICO DI MILANO	IT
19	RWTH – AACHEN UNIVERSITY	DE

QS WORLD UNIVERSITY RANKINGS

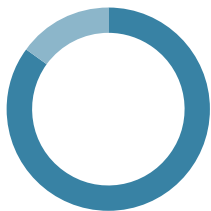
RANKING CRITERIA

OVERVIEW



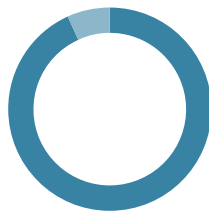
88,9%

Overall



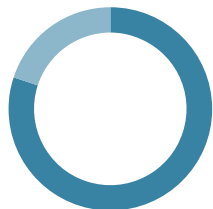
89,8%

Academic Reputation



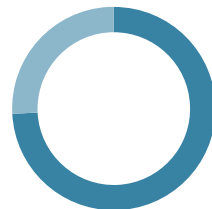
95,4%

Employer Reputation



82,0%

H-index Citations



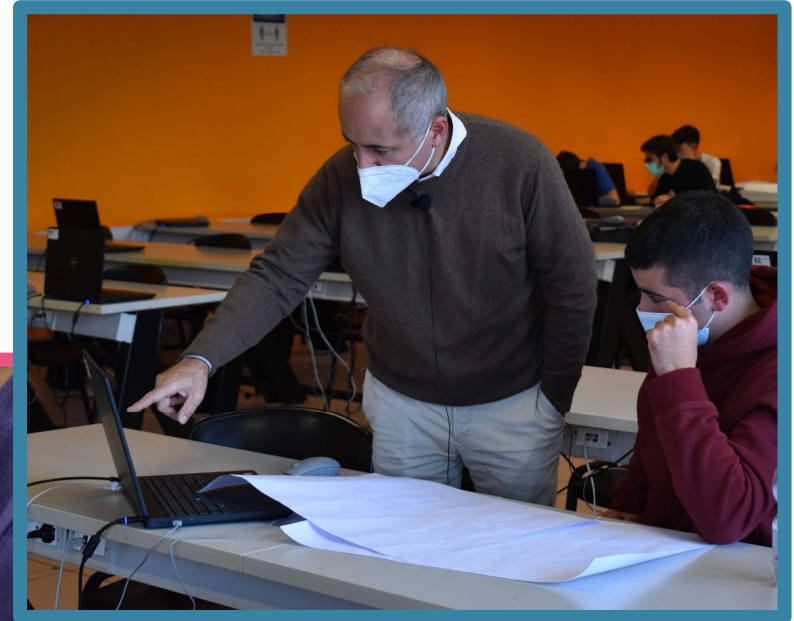
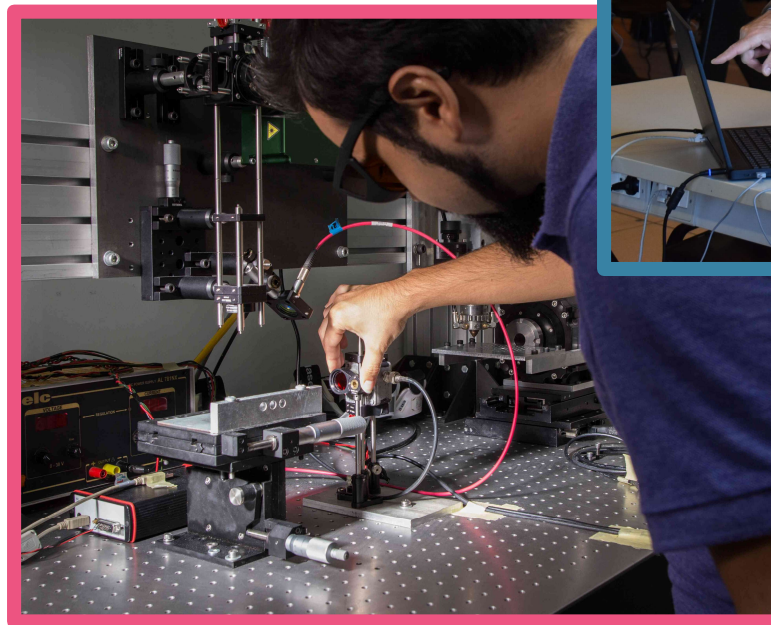
80,4%

Citations per Paper

EMPLOYER REPUTATION – GLOBAL RANKING

#RANK 2021	UNIVERSITY	EMP. REPU.	LOCATION EUROPE
3	UNIVERSITY OF CAMBRIDGE	97.3	UK
4	UNIVERSITY OF OXFORD	97.0	UK
7	POLITECNICO DI MILANO	95.4	IT
9	DELFT UNIVERSITY OF TECHNOLOGY	93.5	NL
10	ETH ZURICH	93.1	CH
13	IMPERIAL COLLEGE LONDON	90.8	UK

STUDYING MECHANICAL ENGINEERING



MECHANICAL ENGINEERING PROGRAMME

BACHELOR OF SCIENCE



Milano Bovisa,
Piacenza



3 years
180 ECTS



Language:
Italian



TOL –
Admission test



Internship and entrance into
the labour market



Admission to the Master of
Science

MASTER OF SCIENCE



Milano Bovisa,
Lecco



2 years
120 ECTS



Language:
English



Application evaluation
Self-assessment test



Entrance into the labour
market



Admission to the Ph.D.
Programme

PH.D.



Milano Bovisa,
Lecco



3 years



Language:
English



Call for applications



Entrance into the labour
market

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

PROGRAMME STRUCTURE 120 ECTS



YEAR I

MANDATORY CORE COURSES – 62 ECTS



YEAR II

MANDATORY TRACK COURSES – 16/20 ECTS

ELECTIVE TRACK COURSES – 18/22 ECTS



WORKSHOPS – 2 ECTS

MASTER'S THESIS – 18 ECTS

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

YEAR I

Applied **Metallurgy**

Energy Systems

Advanced **Manufacturing** Processes

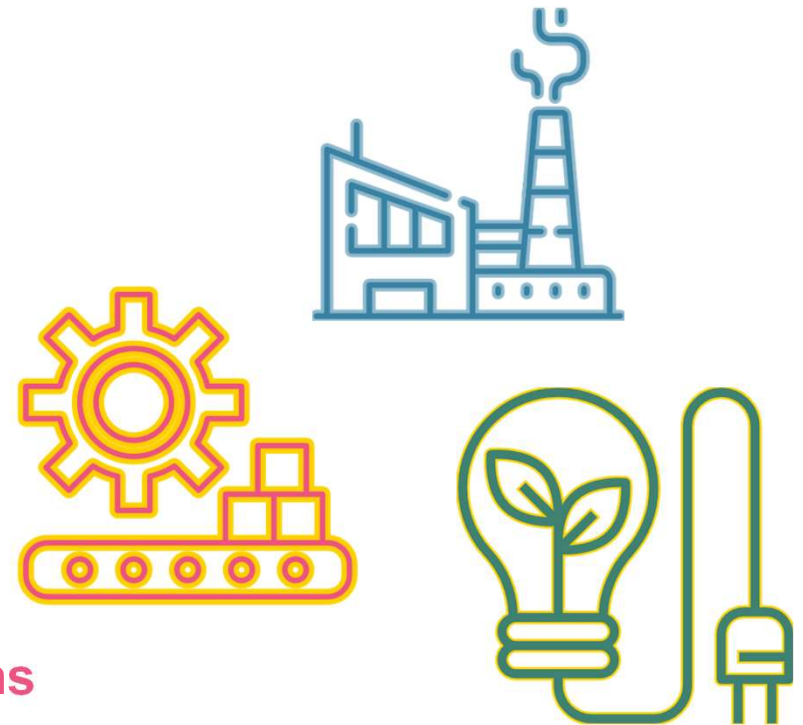
Machine **Design**

Mechanical System **Dynamics**

Data Analysis for Mechanical **Measurements**
and Systems

Design And Management of **Production Systems**

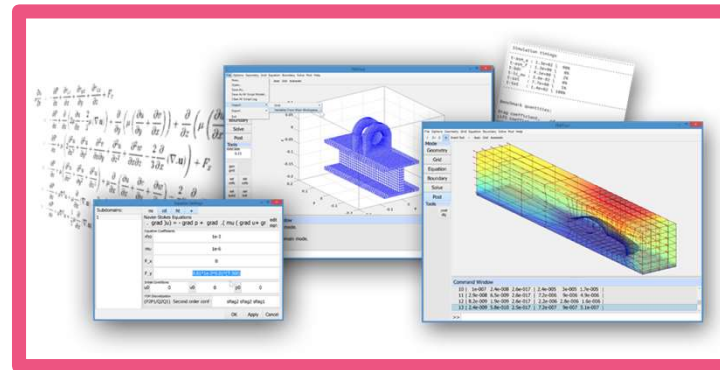
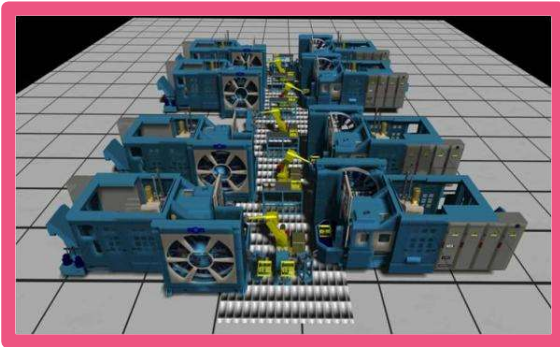
Control and Actuating Devices for Mechanical Systems



MASTER OF SCIENCE IN MECHANICAL ENGINEERING

YEAR II

ME1: PRODUCTION SYSTEMS



ME2: MECHATRONICS AND ROBOTICS

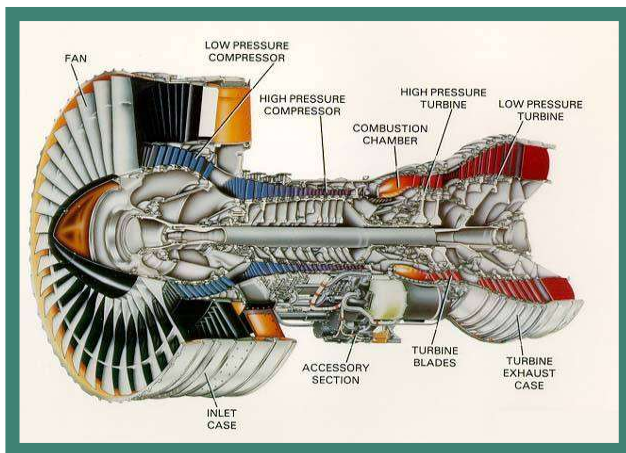
ME3: VIRTUAL PROTOTYPING



MASTER OF SCIENCE IN MECHANICAL ENGINEERING

YEAR II

ME4: ICEs AND TURBOMACHINERY



ME5: MACHINE DESIGN

ME6: ADVANCED MATERIALS AND MANUFACTURING



MASTER OF SCIENCE IN MECHANICAL ENGINEERING

YEAR II

ME7: GROUND VEHICLES



MASTER OF SCIENCE IN MECHANICAL ENGINEERING

YEAR II

ME8 (PC): MACHINE TOOLS ENGINEERING

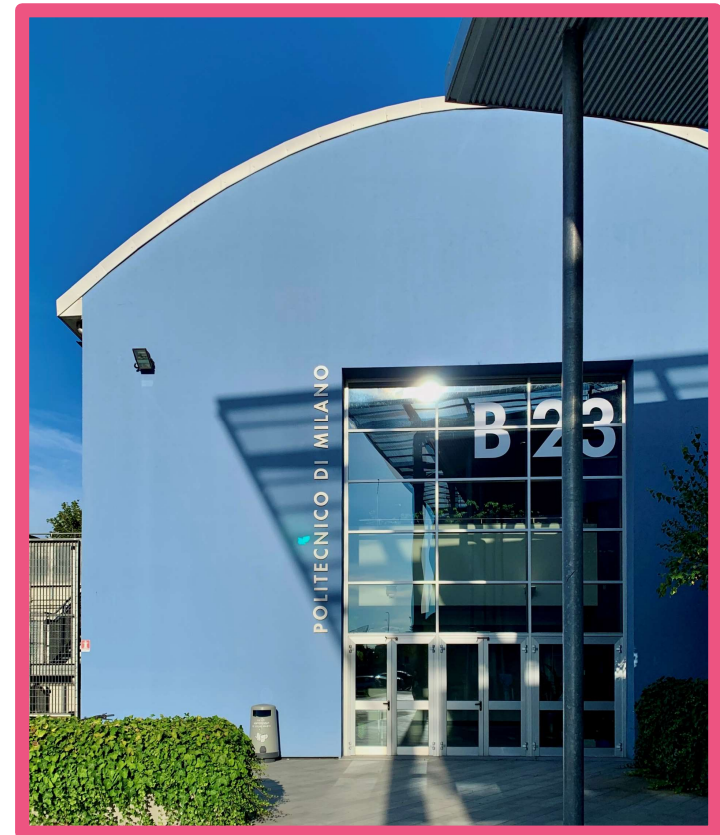


ML5 (LC): ENGINEERING DESIGN AND MANUFACTURING

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

INTERNAL DOUBLE DEGREE PROGRAMMES

- Mechanical and Materials Engineering and Nanotechnology
- Biomedical and Mechanical Engineering



EXCHANGE PROGRAMMES

STUDENT MOBILITY



IDEA LEAGUE

PARTNERS: CHALMERS, ETH ZURICH, RWTH, TU DELFT

ALLIANCE 4 TECH

PARTNERS: CENTRALE SUPÉLEC, TU BERLIN, UNIVERSITY COLLEGE LONDON



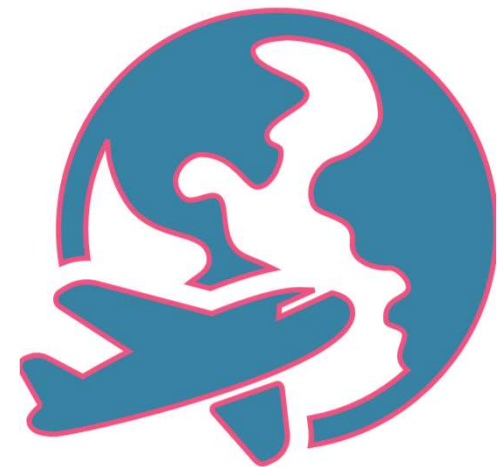
ENHANCE

PARTNERS: CHALMERS, NTNU, RWTH, TU BERLIN, UNIVERSITAT POLITÈCNICA DE VALÈNCIA, WARSAW
UNIVERSITY OF TECHNOLOGY

EXCHANGE PROGRAMMES

STUDENT MOBILITY – GLOBAL PARTNERSHIPS

- ERASMUS+
- UNITECH
- MEDes
- PEGASUS NETWORK
- T.I.M.E.
- ASEA-UNINET NETWORK
- EXTRA EU PROJECTS
- SINO-ITALIAN CAMPUS
- MCI – MOBILITY CONFAP ITALY
- ERASMUS+ (ICM)
- MAGALHEAS NETWORK
- PLOTONG – DOUBLE DEGREE PROGRAMME
- EIT Manufacturing, EIT Urban Mobility



PROFIT FROM YOUR TALENT

POLIHUB: INNOVATION DISTRICT AND START-UP ACCELERATOR



SINCE 2002



IDEAS
COLLECTED



M² INCUBATION
SPACES



INCUBATED
START-UPS



WORLD TOP 5
UNIVERSITY
BUSINESS
INCUBATOR

MECHANICAL ENGINEERING PROGRAMME

JOINT RESEARCH CENTRES (JRC)

Research activities in partnership with...



Comune di
Milano



VENERANDA FABBRICA DEL DUOMO DI MILANO
1387



FNM



LeNORD



Metal and
Transformation
Technologies

Goppion



SOLVAY

ARUP



life.augmented



Agenzia Spaziale Italiana

MECHANICAL ENGINEERING PROGRAMME



POLITECNICO
MILANO 1863

Q&A

Open Day

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