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SCHOOL OF INDUSTRIAL AND
INFORMATION ENGINEERING

Electrical Engineering

<https://www.polimi.it/en/international-prospective-students/>

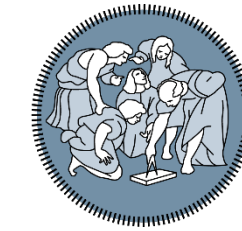


Why should you pursue
your M.Sc degree in
Electrical Engineering?

Why at
Politecnico di Milano?

Profile: we pursue innovation in the study and application of electrical energy

The mission



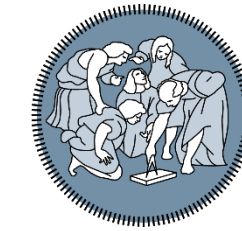
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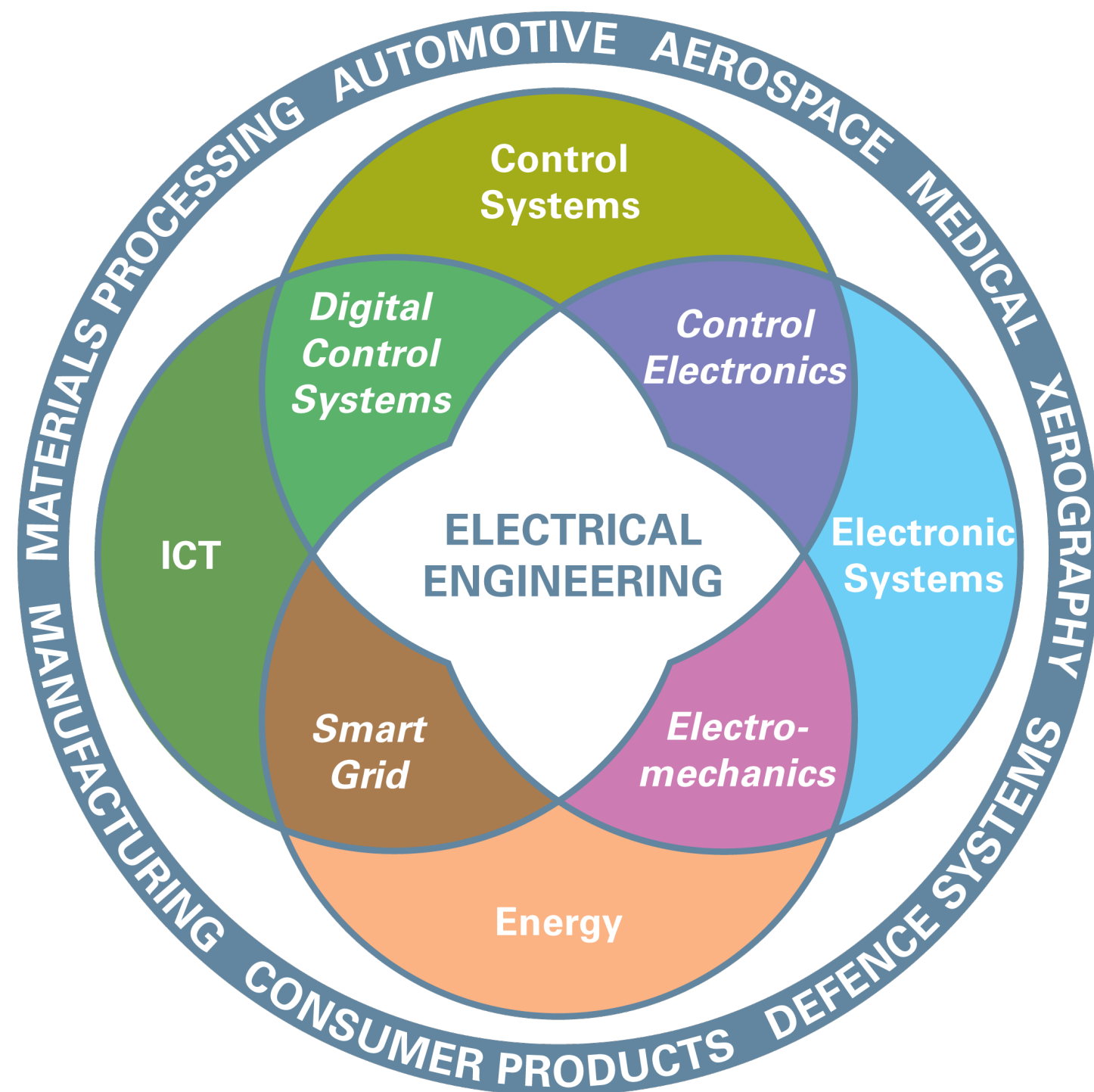
The mission of the
M.Sc graduate is
innovation.
You study to prepare
yourself to be an
innovator!

The EE field is among the most promising ones, innovation wise!

The keywords



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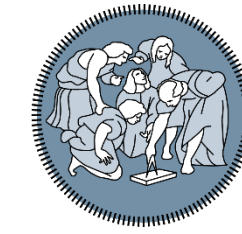


Green: energy generation from renewables
Smart: optimal energy management through smart exploitation of ICT techniques
E-Mobility: design and development of innovative vehicles and transportation systems for electrical mobility
IoT: Artificial Intelligence (AI) methods to optimize energy generation and consumption
Transition to a new Energy Era

Multidisciplinarity

The M.Sc graduate in Electrical Engineering plays a central and important role in implementing these new paradigms, which show a strong industrial and societal impact

Why at Politecnico di Milano?



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Electrical Engineering at Politecnico di Milano ranks, in 2020:

- n. **17** globally
- n. **6** in Europe
- n. **1** in Italy

Faculty members of the EE school are worldwide renowned scientists

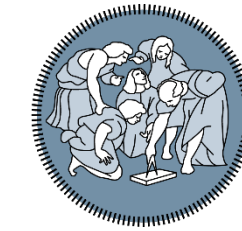
- IEEE Fellows
- Members of National Academies of Sciences
- Recipients of IEEE Technical Field Awards

Strong cooperation with **primary industries** in the EE field



Innovation starts at Politecnico di Milano

The subjects

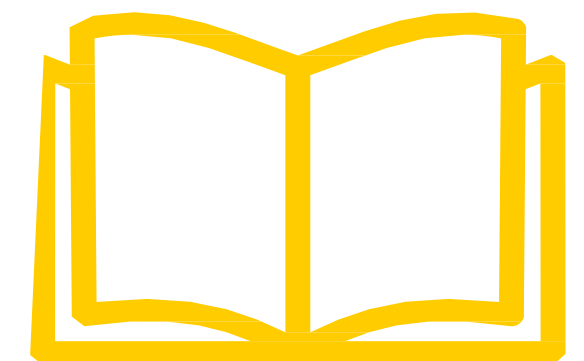


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Competences and skills are spread on a wide band:

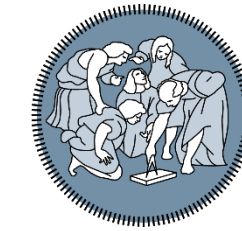
- **The required background**
 - Mathematics, Physics, Fundamentals of Electromagnetism
- **The core subjects**
 - Circuit Theory, Power Systems, Electrical Machines and Power Electronics, Instrumentation & Measurement, Electromagnetic Compatibility
- **Additional subjects**
 - Automation, Electronics, Computer Science, Economy
- **Soft skills**

Multidisciplinarity



... innovation oriented!

The different paths....

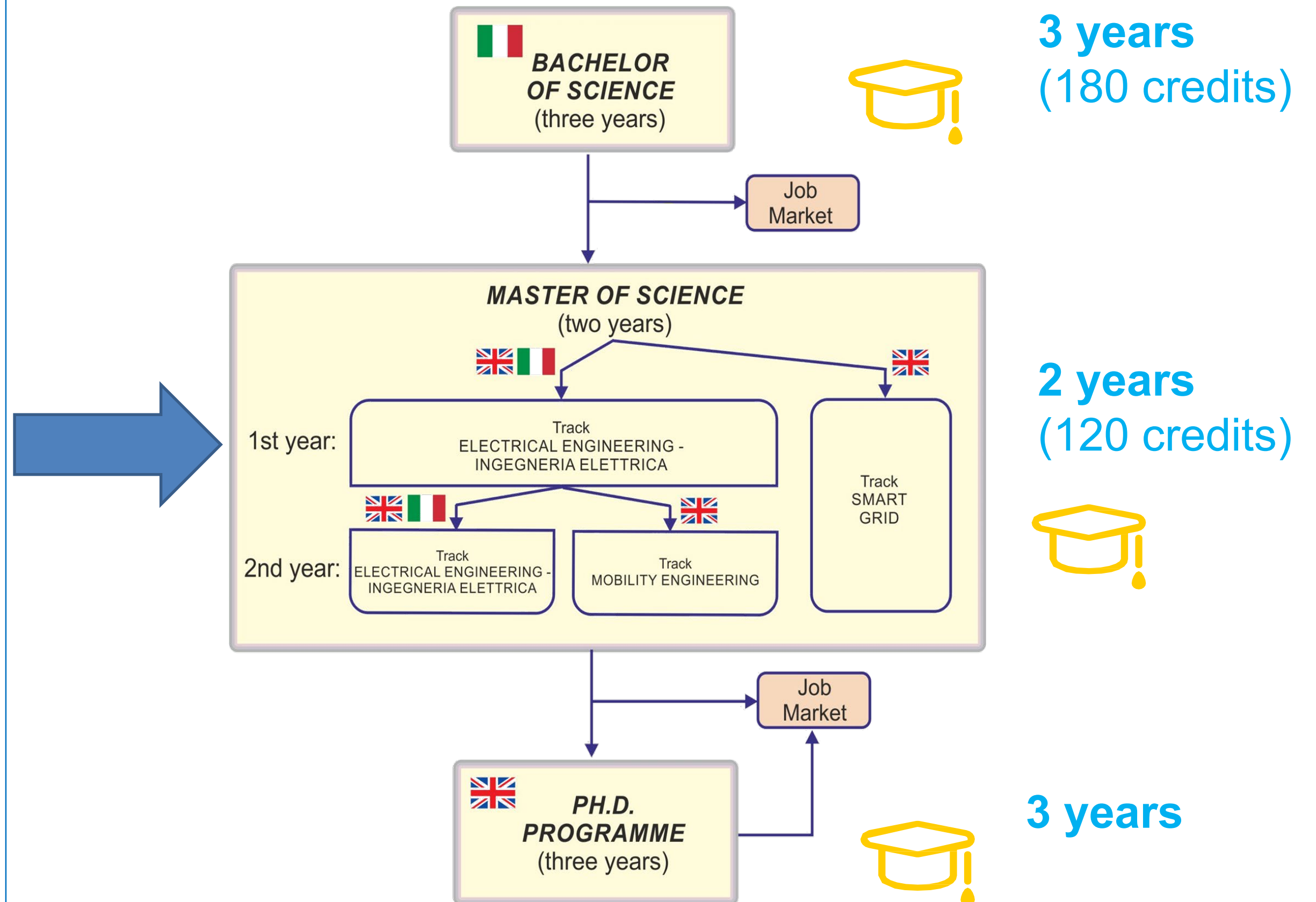


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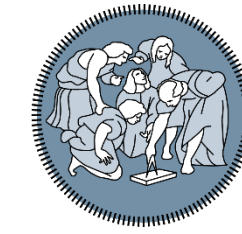
Graduates coming from the main M.Sc path, called **Electrical Engineering**, are capable of generating innovation in the whole, wide **Electrical Engineering field**.

Graduates coming from the **Smart Grid** path are focused on the **integration of renewables** in the electric network, and their skills span over telecommunication and smart control systems.

Graduates coming from the **Mobility Engineering (1 year)** path are focused on **electrical mobility**, one of nowadays hottest topic



International exchange programmes



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Study programmes have been developed to foster short exchanges and double M.Sc. degrees:

In Europe, through the **IDEA League** and **Alliance4Tech** programmes

In China through dedicated Double Degree programmes with top Universities in Electrical Engineering:

- **Xi'an Jiaotong University (XJTU)**, in Xi'an, at **Polimi-XJTU Joint School!**

Path: *power systems*

- **Beihang University (BUAA)**, in Beijing

Path: *industrial automation*

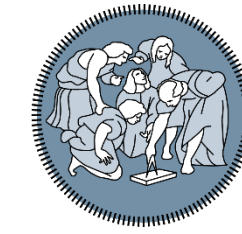
- **Shanghai Jiaotong University (SJTU)**, in Shanghai

Path: *smart technologies*

Job opportunities in a global context

Double Degrees programmes yields the M.Sc. degree in Italy and China

Job opportunities*



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An M.Sc degree in this field is a great investment on yourself and your future!

100% of the M.Sc graduates find a stable job within one year after graduation in Italy (**93%** within 6 months after graduation), including foreign students who decide to settle down in Italy.

51% of the M.Sc graduates already working have received **over 5 job offers** and could select their future job (the average value for the other fields is quite lower)



Helping your choice

* Source: POLIMI Career Service (2018 data)

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