



POLITECNICO
MILANO 1863
SCHOOL OF MANAGEMENT

DOCTORAL PROGRAMME IN MANAGEMENT ENGINEERING



European Business Schools
Ranking 2019







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WHY GET A PH.D. AT POLITECNICO DI MILANO SCHOOL OF MANAGEMENT?

Politecnico di Milano is an outstanding university. According to the QS World University Rankings by Subject 2020, it **ranks among the top 20 universities in the world, in the category “Engineering & Technology”**.

Founded in 1863, Politecnico di Milano is the largest school of Architecture, Design, and Engineering in Italy. Politecnico di Milano has a strong internationalization policy and several study programmes taught entirely in English. These programmes attract an increasing number of talented international

students from more than 100 countries, which helps to form a diverse community.

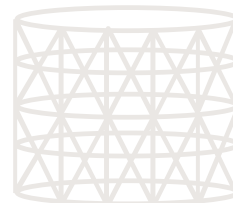
Living and studying in Milan exposes students to a broad international business community and opens up a wide range of opportunities.

Indeed, Milan and its surroundings host a vibrant entrepreneurial ecosystem and a wide variety of industries. Milan is a dynamic, culture-oriented city with a leading role in modern Italy, and it hosts many important events, fairs, and exhibitions.

THE SCHOOL OF MANAGEMENT

The School of Management was established formally in 2003 by combining the **MIP Graduate School of Business**, founded in 1979, and the **Department of Management, Economics and Industrial Engineering (DIG**, Dipartimento di Ingegneria Gestionale), established in 1990.

Today, the School of Management includes a broad range of research and teaching activities, with over 4,900 students enrolled in degree programmes. The DIG, which employs the permanent faculty, runs the Ph.D. programme and the Degree Courses in Management Engineering (Bachelor and Master of Science). It also carries out research and consulting projects. The MIP manages post-graduate education (MBA, Executive MBA, Specialising Masters, Executive programmes, and Customised Corporate programmes).



MISSION

Our mission is to contribute to the collective good through a critical understanding of the opportunities offered by innovation.

This is accomplished by creating and sharing knowledge through high-quality education, high-quality research and engagement with the community.

High-quality education

We aim to increase human capital by educating responsible future leaders, capable of critical thinking and able to assume key managerial and entrepreneurial roles in the global landscape within both the public and private sector. To ensure this outcome, the School offers a complete portfolio of programs, ranging from undergraduate to post-experience education, in line with its social role.

High-quality research

We aim to contribute to the production and dissemination of relevant original knowledge at the intersection between engineering, management, and economics. Ours is a holistic approach that encourages diversity and interdisciplinary studies, and we have a strong foothold on understanding technology by virtue of belonging to one of the most prominent technical universities in the world.

Engagement with the community

We aim to play a pivotal role in creating a more meaningful, sustainable and fair society, by influencing business practices and developing appropriate policy recommendations.

WHY GET A PH.D.?

The Ph.D. (**Philosophiae Doctorate, Dottorato di Ricerca**) is the highest academic degree, and it is recognized worldwide. There is consistent evidence that people with a Ph.D. degree rank high in terms of job satisfaction and salary.

Today, more than ever, getting a Ph.D. degree is the gateway to outstanding professional careers in different fields: universities and research centres, firms, institutions, and entrepreneurial businesses.

The research results of many Ph.D. graduates are driving important changes in society.

In this context, the Ph.D. Programme in Management Engineering of Politecnico di Milano is a unique learning opportunity for young talents and executives who intend to break the inertia of thinking, rejuvenate their innovative thinking, and exert great and continuous influence on their fields.

TESTIMONIALS



Andrea Trianni

Associate professor, Deputy Head of School Research

Field: Italian and Foreign University

Working experience: 8 years

In my professional experience, a Ph.D. in Management Engineering is a unique opportunity to develop and deliver top-notch research in crucial areas for society, such as sustainability of industrial enterprises and digital transformation, while working in close cooperation with businesses, policy-makers and other prestigious institutions from all over the world.



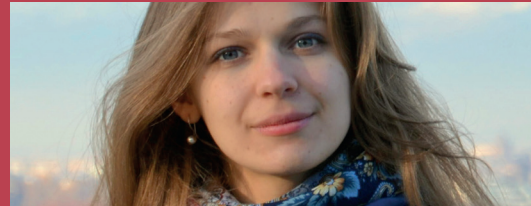
Marco Farinelli

Executive Ph.D., Supply Chain Manager

Field: Pharma manufacturing firm

Working experience: 15 years

I think you get a great deal of value from the process of doing a Ph.D. in Management Engineering. In my personal experience, I have grown into a European role in my company, and I think I would not have been able to do that in such a successful way if it wasn't for the insight and knowledge the Ph.D. was bringing to me along the way.



Yulia Lapko

Assistant professor

Field: Italian University

Working experience: 2 years

Ph.D. journey is a challenging experience: it pushes your limits and puts your world upside down. But that is exactly what makes it so great. I had never had a greater leap in my personal and professional development, I had never been surrounded by more inspiring people, and I had never been more encouraged to go an extra mile towards my goals!



Beatrice Matassini

Associate

Field: Consultancy firm

Working experience: 3 years

The Ph.D. in Management Engineering was fundamental to begin my career, sustaining the development of problem solving capabilities and analytics skills. Visiting periods in top tier universities opened me roads in an international context both in academic and business fields.

PROGRAMME OBJECTIVES AND STRUCTURE

The Ph.D. in Management Engineering of Politecnico di Milano is a world-class Ph.D. Programme with:

- > A **unique offer** among technical universities in Europe
- > A strong emphasis on both **scientific rigour** and **research impact**, the latter being enabled by the strong collaborations that the DIG has with companies and institutions
- > An **interdisciplinary** approach
- > A **solid** and **diverse methodological** background
- > Intense connections with the **international scientific community**

KEY FACTS



Format

3 years: Full-time
4 years: Executive part-time



Profile

Students holding a Master of Science in Management, Economics or Engineering. Applicants with a background in hard or social sciences are welcome as well. Executive candidates are expected to have at least 4 years of professional experience



ECTS

180



Language of instruction

English



Application Period

Full time: Once per year, from April to May, only online applications are accepted
Executive: Candidates can apply at any time of the year



Intake

Every year. Starting dates:
November 1st or February 1st



Admission Procedure

Full time: Through a competitive selection process

Executive: Applications are evaluated individually



Location

Milan Bovisa Campus



International mobility

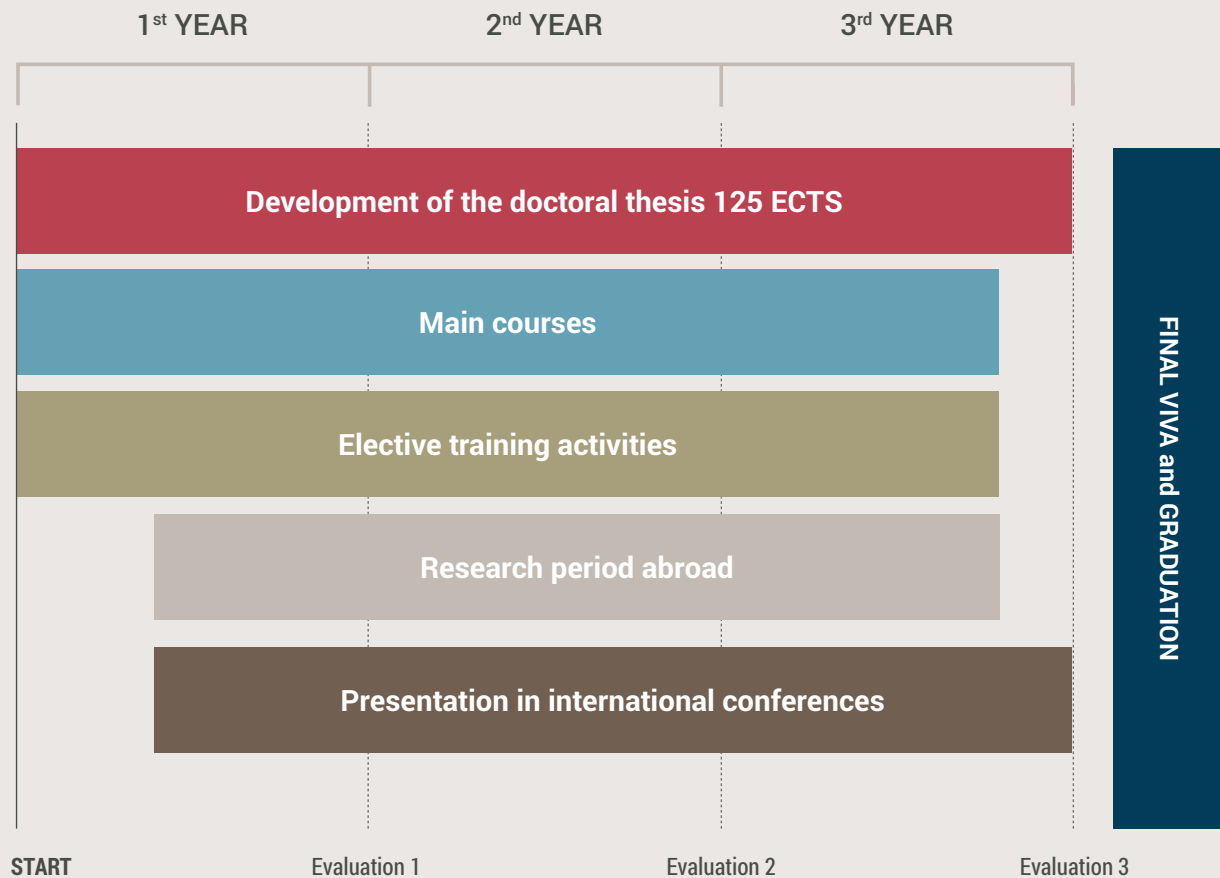
Full time Ph.D. students are required to spend at least one semester at a foreign research institution



Scholarships

Standard scholarships cover: monthly salary, personal research budget, and financial support for the mobility period

PROGRAMME OVERVIEW



The programme is built on three main pillars:

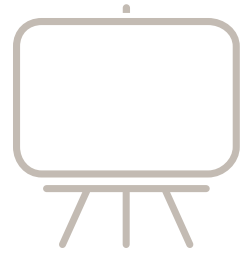
- ① **Development of the doctoral thesis.** The thesis is the hallmark of the Ph.D. programme. It allows students to develop leading-edge research competencies and to produce an original scientific contribution on a topic relevant for academics and practitioners.
- ② **Main courses** on research methodologies and leading-edge topics in management, economics and industrial engineering.

- ③ **Elective training activities.** Students can customize their study plan depending on their research interests. The aim is to develop students' scientific knowledge on specific topics and to expose them to the international scientific community by attending Ph.D. schools or workshops and presenting their research at international conferences.

Ph.D. candidates fulfil their research and training requirements under the supervision of scholars who are experts in their research fields.

Methodological courses

- > Literature Review in Social Sciences and Engineering
- > Academic Publishing
- > Advanced topics in Econometrics (Methods for panel data, SEM)
- > Survey and Experimental Research Methodology
- > Case study and Content Analysis Research Methodology
- > Modelling and analysis of complex systems
- > Advanced Interaction Skills for Academic Professionals



Academic and professional skills

The programme offers a wide set of courses and experience-based training to develop transferrable skills, such as publishing and communication skills, ethics in research and business, personal development. The full time tracks include a mandatory period of study abroad of at least one semester. Spending time abroad allows students to develop an international network of academic and professional contacts that facilitates their subsequent careers and opens up further opportunities for high quality research and training.

Double Degree Agreements

The Politecnico di Milano School of Management continuously develops and nurtures its worldwide network of academic partnerships and collaborations. At the Ph.D. level, double degree agreements are currently in place with TUDelft (The Netherlands), KTH Royal Institute of Technology (Sweden), Copenhagen Business School (Denmark), Henley Business School - University of Reading (UK), National Research University Higher School of Economics in Moscow (Russia), and Pontificia Universidad Católica de Valparaíso (Chile).

Industrial and Executive Ph.D.

In the past, Ph.D. graduates were employed mainly by research organizations, but now the demand for Ph.D. graduates is steadily growing across sectors. From a firm's perspective, sponsoring a Ph.D. student is a wise investment not only in human capital, but also in research and innovation capacity.

The Industrial and Executive tracks of the Ph.D. Programme in Management Engineering are paths of research and advanced education specifically designed for junior professionals and senior managers, respectively.

The programme allows Ph.D. students to work in a stimulating international context that helps them develop methodological skills and specialised expertise in research and innovation. In turn, their firms and organizations benefit from the application of the methodologies of international academic research to innovative projects of practical use. The Industrial Ph.D. track is a full time programme (3 years), while the Executive track is a part-time programme (4 years), specifically designed to complement and be compatible with the candidate's professional life. Members of the DIG faculty supervise Ph.D. students enrolled in the executive and industrial programmes and guide them in designing and conducting research on a topic that is highly relevant for their sponsoring firms and organizations. At the end of the programme, the Ph.D. thesis is discussed in front of an international jury. Industrial Ph.D. scholarships are funded by firms and organizations, and address specific innovation challenges. The Executive Ph.D. requires an agreement between the school and the organization (e.g., the employer), which sponsors the programme and allows the candidate the time to conduct the required research.



RESEARCH AT SOM

High-quality research is a priority for the school and it is carried out in **compliance** with our **ethical code of conduct**.

Research plays a key role in:

- > Generating new knowledge
- > Enhancing the level of teaching
- > Establishing effective relationships with the productive system, policy-makers and society at large

RESEARCH LINES

Our research strategy develops around “Research Lines”, which are multidisciplinary research activities that integrate the competencies of the main expertise domains - management, applied economics and industrial engineering - to address emerging and scientifically relevant challenges with great practical and societal impact.

- > **Manufacturing of the Future: Industry 4.0**
- > **Challenges in Supply Chain Management**
- > **Sustainability and Social Challenges**
- > **Digital Innovation and Transformation**
- > **Energy Management, Policy and Economics**
- > **Innovating Public Services and Cultural Institutions**
- > **Health and Social Care Management**
- > **Innovation and Design leadership in the Age of Distributed Knowledge**
- > **Entrepreneurship, Finance and Venture Growth**
- > **New Dynamics and Impact of Globalization**
- > **Market Driven Business Model Design and Innovation**



FURTHER INFORMATION

- Detailed information on the **application procedure** and **available scholarships and topics** is available here:
<https://www.som.polimi.it/phd-scholarships>
- Ph.D. Programme in Management Engineering Website:
<https://www.som.polimi.it/en/course/phd/>
- PoliMi School of Doctoral Studies:
<http://www.dottorato.polimi.it/en>

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CONTACTS

To receive additional information on the Ph.D. Programme in Management Engineering and get help with your application, please fill in the form on the Politecnico di Milano website, and specify that you are interested in the Ph.D. Programme:

 www.polimi.it/contact-us



FOR FURTHER INFORMATION:

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Email: phd-ges@polimi.it

NOTES



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