BACHELOR AND MASTER OF SCIENCE IN MANAGEMENT ENGINEERING
Politecnico di Milano is one of the most outstanding universities in the world, ranked 17th in the world, 6th in Europe, and 1st in Italy among technical universities, according to QS World University Ranking - Engineering & Technology 2018. Founded in 1863, it is the largest school of Architecture, Design and Engineering in Italy, with 2 main campuses located in Milan, heart of fashion and design industries, and 5 campuses based around the Lombardy region, one of the most industrialized areas of Europe. Many important scientists and architects studied and taught here; among them Achille Castiglioni, Gio Ponti, Renzo Piano and Aldo Rossi - both Pritzker Prize in 1990 and 1998 respectively - and Giulio Natta, who was awarded the Nobel Prize in Chemistry in 1963.

Politecnico di Milano is organized into 12 Departments, responsible for planning of the research strategies, and 4 Schools, responsible for the organization of education, 2 of them covering the fields of Engineering, 1 focused on Architecture, Urban Planning and Construction Engineering, and 1 School devoted to Design.

Thanks to a strong internationalization policy, several study programmes are taught entirely in English, attracting an ever-increasing number of talented international students, now forming a diverse community from more than 100 countries. In the academic year 2017/2018, 28% of the students enrolled in Master of Science Programmes were international.

Inter and multidisciplinary approaches are fostered throughout the academic career, in particular at the PhD School and the ASP (Alta Scuola Politecnica), a school for young talents from all over the world, who develop their skills in a team work context to pursue complex innovation projects. Teaching is closely related to research, a key commitment that enables to achieve results of high international standards, while creating connections with the business world.

Strategic research is carried out mainly in the fields of energy, transport, planning, management, design, mathematics and natural and applied sciences, ICT, built environment, cultural heritage, with more than 250 laboratories, including a Wind Tunnel (unique in the world for configuration and features), a Crash Test Centre, PoliFAB (the University’s lab for micro and nano production) and PoliFactory, a laboratory where new design processes are developed.
The modern world has seen the development of complex systems, with a strong interaction of technical, economic, and organisational aspects, fostering the need of a new professional figure that stays at the intersection of these aspects and manage them in an innovative way.

This role has been more and more taken up by engineers who enriched their abilities with strong managerial competences, leading the rise of a new breed of professionals: the manager-engineer.

Blending a strong scientific knowledge and approach, with a deep managerial competence, Politecnico di Milano has been able to translate formally into a degree course the realisation of this emerging professional figure that has evolved naturally throughout the industrialised world.

The Management Engineering course is structured in a three years Bachelor’s degree, and a two years Master of Science’s degree.

Management Engineers cover a wide-reaching range of activities, such as designing and managing production and logistics systems, strategic planning, business organisation and management, economics, planning and managing technology and innovation, internationalization processes, management control, corporate and market finance, economics and management of companies in regulated sectors and network services, large-scale project planning and management, internet applications and ICT management, and are working in all type of industries and sectors.

Gioia Ferrario
HR Director Italy, Greece & Turkey, Boston Consulting Group

The experience at Politecnico helped me to develop strong competences both from a technical and managerial perspective. It gave me the instruments to think strategically and deal with the changes that are taking place in the world. I think this is very important for the new generations of engineers and it is one of the aspects I always search for when I interview new candidates. I feel this can make the difference in the current competitive context.
The Bachelor’s degree in Management Engineering produces a professional figure with a strong, solid background. The first year has a strong component of scientific disciplines and introduces some engineering and economic disciplines. In the second year, students’ modeling capabilities are deepened, and digital engineering skills are provided together with knowledge on the firm’s structure and operational activities. In the third year, students can deepen an engineering discipline of their choice, and deal with management and organizational and industrial dynamics, with special emphasis on data analysis. Moreover, an overview on the macroeconomic context is provided. At the end of the third year, an internship in a company or a lab project allows students to apply in real contexts the learned models and methodologies.

Subject to evaluation of their curriculum, graduates in Management Engineering can continue their studies in the Master of Science in Management Engineering. Their admission always being subject to an evaluation, graduates may choose other Master of Science programmes or 1st-level Specialising Masters.
SELECTION PROCESS
(average data about the last three years, from 2015/16 to 2017/18)

1,973 STUDENT APPLICATIONS
763 ENROLLED STUDENTS

BACHELOR STRUCTURE

MANAGEMENT ENGINEERING: BSC STRUCTURE

1st YEAR 2nd YEAR 3rd YEAR

<table>
<thead>
<tr>
<th>SCIENTIFIC DISCIPLINES</th>
<th>ENGINEERING DISCIPLINES</th>
<th>ECONOMIC AND MANAGEMENT DISCIPLINES</th>
<th>SCIENTIFIC DISCIPLINES</th>
<th>ENGINEERING DISCIPLINES</th>
<th>ECONOMIC AND MANAGEMENT DISCIPLINES</th>
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<tr>
<td>45 ECTS</td>
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<td>20 ECTS</td>
<td>10 ECTS</td>
<td>40 ECTS</td>
<td>10 ECTS</td>
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</tbody>
</table>

FINAL PROJECT
Work
Selection for MSc
MSc Management Engineering
Other MSc
The Master of Science in Management Engineering aims at training engineering professionals that are ready to meet today’s business challenges with innovative solutions. This programme offers the opportunity to really integrate high-level management skills with in-depth technical competences, to enable students to deal with complex systems in many different areas (for example, production, logistic, supply chain management, accounting, finance, economics, innovation, internationalization, technology management).

**FORMAT**
2 years - Full-time

**LANGUAGE**
English

**ECTS**
120

**APPLICATION DEADLINE**
Every year different calls for applications are opened for international prospective students willing to apply to Politecnico di Milano Master of Science programmes. Calls for applications may differ according to the semester of interest or student nationality: http://www.polinternational.polimi.it/how-to-apply/laurea-magistrale/

**INTAKE**
Twice a year (September - February)

**FEES**
For EU students, fees are based on students’ family income and on the study plan presented, and range from about €800 to €3,300 per year. For Non-EU students fees amount to about €3,300 per year.

**SELECTION PROCEDURE**
Access to the Master is by selection

**FOR FURTHER INFORMATION**
www.dig.polimi.it/masterofscience
Management Engineering is inherently multidisciplinary and students attending this programme have the opportunity of choosing among a broad range of courses, based on different teaching methods ranging from theoretical lectures, practical sessions, case studies, project works, and laboratories. A vital part of the learning experience consists in the involvement of students in real projects with corporations, SMEs, public bodies or non-profit organisations, where they can apply the skills, methods, and knowledge acquired through the courses.

The Master’s degree is held in Milan campus.

**SELECTION PROCESS**

*(average data about the last three years, from 2015/16 to 2017/18)*

173 FOREIGN STUDENTS ENROLLED

491 ITALIAN STUDENTS ENROLLED

664 STUDENTS ENROLLED

1,667 STUDENT APPLICATIONS

**Maria Alejandra De la Cruz Ospino**

**Industrial Engineer, Pirelli Tyre S.p.A.**

When I decided to study at Politecnico di Milano my main motivation was learning the best practices of a World-Class country in manufacturing and of one of the best technical universities in Europe. Today, one year after my graduation, I am proud and satisfied of being a Polimi Alumni, since it taught me how to think strategically when managing any process within the company. It was the perfect complement to my bachelor studies and it opened me the doors to work in one of the worldwide leading tyre manufacturer, Pirelli.
The Master of Science in Management Engineering is a **two-year programme** comprising a total of 120 ECTS. The first year provides a common knowledge basis that constitutes the foundation of the Master of Science programme. The second year is articulated into nine tracks dealing with different specialized disciplines. Furthermore, some free choice courses are available to give students the possibility of receiving a multidisciplinary and customised education.

**MSc in Management Engineering**

<table>
<thead>
<tr>
<th>1st YEAR</th>
<th>2nd YEAR</th>
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<tbody>
<tr>
<td>30 ECTS</td>
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<td>LEADERSHIP AND INNOVATION</td>
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<tr>
<td>ACCOUNTING FINANCE &amp; CONTROL</td>
<td>BUSINESS AND INDUSTRIAL ECONOMICS</td>
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<tr>
<td></td>
<td>+ 2 OUT OF 4</td>
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<tr>
<td></td>
<td>Quality Engineering Operations Management Logistics Management Industrial Technology</td>
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<tr>
<td></td>
<td>BUSINESS AND INDUSTRIAL ECONOMICS</td>
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<td></td>
<td>+ 2 OUT OF 3</td>
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<tr>
<td></td>
<td>Operations Management Logistics Management Industrial Technology</td>
</tr>
<tr>
<td>10 ECTS</td>
<td>35 ECTS</td>
</tr>
<tr>
<td>Free selection of courses for a multidisciplinary and customized programme</td>
<td>ADVANCED MANUFACTURING</td>
</tr>
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<td></td>
<td>INDUSTRIAL MANAGEMENT</td>
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<td></td>
<td>SUSTAINABLE OPERATIONS AND SOCIAL INNOVATION</td>
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<td>SUPPLY CHAIN MANAGEMENT</td>
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<td>ENERGY &amp; ENVIRONMENTAL MANAGEMENT</td>
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<td></td>
<td>DESIGN MANAGEMENT, INNOVATION AND ENTREPRENEURSHIP</td>
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<td>DIGITAL BUSINESS AND MARKET INNOVATION</td>
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<td></td>
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<td></td>
<td>FINANCE</td>
</tr>
<tr>
<td>15 ECTS</td>
<td>MASTER THESIS</td>
</tr>
</tbody>
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**Matteo Turuani**

**Purchasing Project Manager, Ferrari**

I chose Politecnico di Milano and Management Engineering because I think it’s a great university and a valid course that gives students a wide range of job opportunities. The course gave me a solid technical background that helped me have a better understanding and management of the tech-related issues of the industry I’m working in.
INTERNAL DOUBLE DEGREES

The internal double degree is a joint programme with a partner course aimed at developing new professional figures that will be able to complement typical managerial competences of Management Engineering with other disciplines, in order to address the challenges and the opportunities of specific sectors.

Some examples of these double degrees are:

**Double Degree in Management Engineering and Product-Service System Design**

The Double Degree in Management Engineering and Product-Service System Design aims at developing a new professional figure that is highly specialized in the fields of design and management, strategy development and innovative business models. Students that undertake this double degree programme will develop competencies that go beyond product design to embrace the entire product-service-communication chain, with a special focus on services and complex systems of values for people and for businesses, joining the capability to conceive and visualize business models and to create value and lead the innovation process.

**Double Degree in Management Engineering & Management of Built Environment**

The Double Degree in Management Engineering & Management of Built Environment aims at addressing the new challenges that characterize the construction sector in Italy and in Europe. Its objective is to create a new professional figure that integrates the typical skills of management engineers with the key competencies of building engineers, and, vice versa, provides building experts with new management expertise. Students that take up this double degree programme will become aware of the key issues concerning building design, asset management and all the crucial interdependencies and links among design, construction and management.

**Double Degree in Management Engineering & Mechanical Engineering**

The Double Degree in Management Engineering & Mechanical Engineering aims at capturing the emerging needs of the industrial and manufacturing sector in Italy and in Europe. Students that embrace this double degree programme will have the opportunity to develop their competencies in managerial and technological issues concerning product and production processes. Key topics in this programme are indeed product and production process design in relation to different aspects of corporate management, finance, operations management, and supply chain management.

**Double Degree in Energy Engineering and Management**

The Double Degree in Energy Engineering and Management aims to develop a new professional figure that is highly specialized in the field of energy and the management to cope with the continuing global demand for energy due to the current economic growth. To support and accelerate this transformation of the energy sector, is required a new generation of industrial engineers and managers, new professional profiles able to transform the potential of new technologies in industrial processes where technical and managerial knowledge and skills are seamlessly blended and thus well-equipped to face some of the most relevant challenges. Students that embrace this Double Degree program will have the opportunity to develop their competencies concerning managerial and featuring energy elements typical of both of the Management and Energy Engineers.

The updated list of programmes that are started each year and related information are available at [www.dig.polimi.it/internaldd](http://www.dig.polimi.it/internaldd)
STUDENTS & ALUMNI EXPERIENCES

Andrea Roga  
Master of Science, Digital Business and Market Innovation

Eleonora Carcano  
Master of Science, Supply Chain Management

Luca Gnecco  
Bachelor

Giada Giotta  
Bachelor

Ester Angelica Muggia  
Bachelor

Elena Ferrari  
Bachelor

Riccardo Maria Giorgino  
Bachelor

Anastasia Ravelli  
Master of Science, Design Management, Innovation and Entrepreneurship

Federico Bartolomucci  
Master of Science, Sustainable Operations and Social Innovation

Paola Scarpa  
Sector Director, Google

Davide Di Domenico  
Partner and Managing Director, BCG

Alessandra Brambilla  
Worldwide Commercial Solutions - EMEA lead, Microsoft

Mario Ceresa  
Industry Sales Director Western Europe, Microsoft Italia

Roberta Regis  
Global Application Director Marketing & Sales, Gruppo Campari

Paolo Poma  
Chief Financial Officer & Managing Director, Automobili Lamborghini S.p.A.

Sergio Solero  
President & Chief Executive Officer, BMW Italia

Luigi Binelli  
Head of Planning and CRM, Artsana Group

Giada Giotta  
Bachelor

Elena Ferrari  
Bachelor

Riccardo Maria Giorgino  
Bachelor

Anastasia Ravelli  
Master of Science, Design Management, Innovation and Entrepreneurship

Federico Bartolomucci  
Master of Science, Sustainable Operations and Social Innovation

discover the experiences lived by students and alumni >
Students & Alumni Experiences

Luigi Binelli
Head of Planning and CRM, Artsana Group

Fabio Dinale
Region Leader EMEA, General Electric Power

Paola Scarpa
Sector Director, Google

Sergio Solero
President & Chief Executive Officer, BMW Italia

Tiziana Olivieri
Industry Sales Director Western Europe, Microsoft Italia

Davide Di Domenico
Partner and Managing Director, BCG

Roberta Regis
Global Application Director Marketing & Sales, Gruppo Campari

Paolo Poma
Chief Financial Officer & Managing Director, Automobili Lamborghini S.p.A.

Alessandra Brambilla
Worldwide Commercial Solutions - EMEA lead, Microsoft
INTERNATIONALIZATION

Politecnico di Milano participates in several research and training projects collaborating with the most qualified international universities. Today, Politecnico takes part in European and global networks of leading technical universities such as TIME (www.time-association.org), and its international presence is constantly increasing.

Politecnico di Milano offers its students many programmes taught in English, as for the Master of Science and Ph.D. programme. Furthermore, Politecnico gives its students the opportunity to participate in high quality international projects based on EU programmes and special agreements with many partner universities, including several exchange and double-degree programmes.

Every year, more than 1200 students from Politecnico di Milano participate in international mobility programmes and we have the pleasure of welcoming about the same number of students from our partner institutes. The students selected for any specific programme have the opportunity of enriching their academic experience by spending a period at a partner university, and acquire credits fully recognized by the Politecnico di Milano.

INCOMING STUDENTS:
822 students in the last 5 years
From 135 institutions

OUTGOING STUDENTS:
758 students in the last 5 years
To 134 institutions

Total exchanges with
180 institutions (INCOMING + OUTGOING)
ALLIANCE4TECH

Alliance4Tech consists of four Top Engineering Institutions of different European cultures, located in global cities in the economic heart of Europe, forming a European Campus without borders for their students and faculties.

The Alliance4Tech Partner Universities (Politecnico di Milano, TU Berlin, University College London, CentraleSupelec Paris) will enhance and develop the following initiatives for their prospective and respective students:

- **Free-mobility/Full flexibility** to switch from one city to another every semester, as long as there is former official approval of both the home and host Institutions
- **Multi-site double/joint degree programmes**
- Practical activities and new pedagogical approaches
- **Internship** opportunities in companies
- **Seasonal Schools** in scientific fields and/or soft skills and employability and/or any fields of common interest
- A Multi culturally and geographically **diverse environment** with students coming from within Europe and outside Europe alike

For more information [www.alliance4tech.eu](http://www.alliance4tech.eu)
**IDEA LEAGUE**

The **IDEA League** is a focused network of leading European universities of science and technology. Its members are TU Delft, RWTH Aachen, ETH Zurich, Chalmers University and Politecnico di Milano.

The IDEA League organizes Summer Schools, Doctoral Schools and tracks for highly talented students. Within the IDEA League network students, researchers and supporting staff collaborate to improve education, research and quality assurance.

For more information [www.idealeague.org](http://www.idealeague.org)

**QTEM**

QTEM **Quantitative Techniques for Economics and Management** - is a prestigious international network that matches the best students with analytical and quantitative skills and a qualified network of academic and corporate partners. Selected students can benefit from a tremendous chance of growth, enriching their cultural and academic background and moving the first step in the creation of worldwide network.

QTEM Students are awarded a Master’s degree at their home university along with the QTEM degree.

For more information [www.qtem.org](http://www.qtem.org)
Together with a selected number of partner Universities, Politecnico di Milano has developed an international Double Degree, characterised by a specific Management Engineering curriculum with a strong international experience, and the achievement of both Politecnico di Milano and Partner University degree, in two and a half years, with a significant Master thesis/internship to consolidate the competences, and facilitate the starting of a working career. Among the partner universities there are, for instance:

**Audencia Nantes School of Management**

Audencia Nantes School of Management is among Europe’s top management schools and offers programmes that are regularly featured in the best international rankings (such as those drawn by The Financial Times or The Economist). The School has different prestigious international accreditations such as EQUIS, AACSB, AMBA. The Dual Degree offers the opportunity to exploit Audencia’s specific competences in marketing, consulting, finance, and entrepreneurship, complementing Politecnico’s technological and innovation background.

**Solvay Brussels School of Economics and Management**

The Solvay Brussels School of Economics and Management (SBS-EM) is the Business School of the Université libre de Bruxelles, a large, multi-cultural university located in the metropolitan area of Brussels, and near the headquarters of the social and political institutions of the European Union. The SBS-EM offers high quality education for undergraduate, graduate and executive students, as testified by the international university rankings and accreditations (AEQS, EQUIS, AMBA).
Tsinghua University

Tsinghua University (Beijing) is one of the best universities in China for the high quality of teaching, research, and social service. Over the years, it holds the largest numbers of the professors honored as the Chinese Academicians of Science and the Chinese Academicians of Engineering, of the State Key Laboratories, of the national research awards in science and technology, of research funding, of the patents authorized, and also of the articles indexed in EI (Engineering Index), ISTP (Index to Scientific & Technical Proceedings), and SCI (Science Citation Index). Tsinghua University has also been recognized as one of the top universities in the world. The Double degree aims at integrating the unique education resource of each university to improve the graduate student quality, thus enable students to receive Master of Science degrees of both Italian and Chinese universities and strengthen their competences in global manufacturing and management engineering.

Tongji University

Tongji University (Shanghai) is one of the oldest and most prestigious institutions of higher education in China. It is now a comprehensive university with seven disciplines in engineering, science, medicine, management, arts, law and economics with strength in architecture, civil engineering and oceanography, attracting a large number of students from all parts of China and all over the world. The University has developed close links with industry, which provides its students with opportunities of obtaining first-hand information through interaction with the society. The Double Degree aims at providing students with the means and resources they need to develop management skills in the field of management and industrial engineering.

The list of partner universities is available at www.dig.polimi.it/internationaldd
Emphasising the warm welcome given by the world of business to this new breed of professionals, graduates from Politecnico di Milano can find employment in several industrial and service companies, in consultancy firms, banks and financial institutions, public administration and in non-profit organisations.

**FUNCTIONS**

- Consulting
- Energy/Oil & Gas/Utilities
- Mechanical/Automation
- Electronics/Computer/ICT services
- Credit, Insurance & Finance
- Trade/Distribution
- Food
- Chemistry & petrochemistry
- Logistic/Transport
- Textile/Clothing
- Education, School & Universities
- Pharmaceuticals/Medical
- Engineering Company/Plant
- Telecommunications
- Automotive
- Other

**INDUSTRIES**

- Information Systems
- Strategy
- Finance & Management Control Systems
- Production Planning & Control
- Sales
- Supply Chain Management
- Marketing
- Logistics
- Research & Development
- Procurements
- Organization & Human Resource
- Engineering & Equipment
- Quality and safety
- Other (specify)
HOW THEY FOUND THEIR FIRST EMPLOYMENT

- Career Service: 48.4%
- Direct Contact: 38.1%
- Internship: 9.6%
- Recruitment Agency: 3.9%
HOW TO REACH OUR CAMPUS:

FROM THE DUOMO (City Centre)
Take the red subway line M1 towards Rho Fiera-Bisceglie, get off at Cadorna and take the train to Milano Bovisa. Alternatively, take the red subway line M1 towards Sesto FS rail station, get off at Porta Venezia and take the train to Milano Bovisa.

Estimated journey time: 20 minutes.

FROM THE CENTRAL STATION
Take the green subway line M2 towards Famagosta, get off at Garibaldi station and take the urban raleway towards Milano Bovisa (2 stops).

Estimated journey time: 20 minutes.

FROM GARIBALDI STATION
Take the urban raleway towards Milano Bovisa (2 stops).

Estimated journey time: 8 minutes.

FROM CADORNA STATION
Take the urban raleway towards Milano Bovisa (2 stops).

Estimated journey time: 5 minutes.