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MILANO 1863

2018-2019 Third Edition
Salini Impregilo
and Politecnico di Milano
for Graduated Engineers

Master's in “International Construction Management”

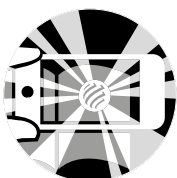
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EXCLUSIVE CONTENTS

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Introduction

Scenario

Competition in the construction sector for complex infrastructure projects has changed dramatically. It is now increasingly based on being able to demonstrate strong competencies in human capital, which is central to creating value and developing new business.

As a global company, Salini Impregilo intends to grow by attracting and developing the most talented individuals. We also aim to contribute to the sector's future in a responsible way by investing in training programmes with the best universities in the world, in order to help transfer vital knowledge from senior experts to engineers who have just begun their professional career.

Motives for Salini Impregilo

WE AIM TO SHARE OUR LEGACY
WITH TALENTED PEOPLE,
AND BUILD A BETTER FUTURE
TOGETHER THROUGH THE
CREATION OF DURABLE, RESILIENT
INFRASTRUCTURE FOR CURRENT
AND FUTURE GENERATIONS.

That's why we believe in training talented people, and ensuring that tomorrow's professionals will complement our Group's strengths, and enhance the skills and knowledge in our sector.

Our goals for creating value with talented people at a global level are:

- **help** talented recent graduates to access the employment market



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SAKS FIFTH AVENUE

- **support** recent graduates in a sector that has not previously invested sufficiently in new generations and promoting skills development
- **provide** high-quality training to early career engineers from across the world on topics related to Construction Management and International Project Management.

We are therefore collaborating with “Politecnico di Milano”, an outstanding academic partner for specialist training.

Training Objectives

The Master’s course aims to help tomorrow’s construction and infrastructure professionals develop, drawing on best practices in large, complex infrastructure projects.

With the “International Construction Management” level I and level II Specializing Master’s – ICM, Salini Impregilo shares the knowledge and experience of specialist training and professional work placements for recent graduates from Italy and abroad.

By the end of the Master’s, we anticipate that students will be ready to take part in the building of international large scale projects, and to apply, for example, for the following professional roles: Junior Technical Office Engineer, Junior Site Engineer, Junior Cost Controller, Junior Planner, Junior Buyer, Junior HSE Engineer, Junior Plant & Equipment Engineer.

“The opportunity to learn from professionals who shared with us their experience in the construction of complex major infrastructure projects has been a great source of inspiration”

Master's Content

The Courses and Methodology

The Master's combines classroom teaching with on-the-job training activities, in an innovative format for the construction sector.

The content includes:

- General introduction to international construction projects
- Business cases developed by Salini Impregilo experts, based on real projects
- Workshops
- Project works
- Site visits
- On-the-job training activities

Teaching Innovation

The Master's offers a unique opportunity for recent graduates from Engineering faculties, in terms of both theory and practical skills. It is divided in two main parts:

- a) Classroom activities led by Salini-Impregilo professionals and Professors from the Politecnico di Milano through lessons, workshops, business cases and visits to construction sites.
- b) On-the-job training activities offered at Salini Impregilo, via internships, under the guidance of a company tutor. Engineers will be able to discover what it means to build large infrastructures, developing innovative building solutions and acquiring technical competencies and skills, by working with the best professionals in the sector.

At the end of the Master's, all students who complete the whole training course with excellent results will be invited to apply for permanent employment with Salini Impregilo.

Course Content – Lectures

The teaching programme comprises two main work streams:

Part 1 PROJECT MANAGEMENT BASICS

1. Project Management
Fundamental Principles

2. Management engineering
introductory course

3. Course on basic BIM programming

4. Introduction to Project Management:
Delivery Methods

5. Financial Report Analysis
and Industrial Accounting Principles

6. Contracts and Legal Aspects

7. HR Management
and organisation principles

8. Innovation in Corporate
Communications as a Business
Development Lever

Part 2 FROM TENDER TO PROJECT EXECUTION

1. International Tender Management

2. Risk Management – Online

3. Project Execution

4. Planning

5. Cost Control

6. Worksite Machinery and Systems

7. Temporary Works:
the most common issues

8. Outdoor Rock Excavation

9. Tunneling Works

10. Concrete Works and Earth Movement

11. Environment, Quality and Safety

12. Procurement

13. Insurances



Internships - On-the-job training activities at Salini Impregilo

Once the lectures have been completed, students will be assigned to on-the-job training activities through internships.

Internships are six months long and include:

- 1) Monthly remuneration;
- 2) Further benefits aligned with Salini Impregilo's HR policy at each site (travel expenses, living allowance, accommodation, etc.);

The internship will be guided by a Salini Impregilo Tutor, and it will be the basis for the final Master's thesis.

Degree Certificate

At the end of the Master's, after passing the final exam, the "International Management Construction - II level Specializing Master's diploma" will be issued in English.

Teaching Staff and Guest Experts

75% of the lectures are delivered by Salini Impregilo managers and professionals, with the educational programme supervised and co-ordinated by Politecnico di Milano.

“This experience is a way to acquire knowledge through the exchanges with colleagues, and a multinational environment where one can carry out mind-opening activities”

2018-2019 Third Edition

Starting Point	The Third Edition of the Master's in "International Construction Management" will be launched in September 2018.
Applications	The Master's course will involve 15 students. Please read carefully the official regulation to learn more about how to apply.
Duration	1 year / Kick Off September 2018
Language	English
Location	Politecnico di Milano (Lectures) Salini Impregilo headquarter and construction sites (curricular internship).
Scholarships	Salini Impregilo provides grants to support the training path and skills development of the most deserving students, before the beginning of the Master's Course, with total or partial coverage of the admission fee.
Admission and Selection Process	<p>The Master's is aimed at recent graduates in Civil Engineering, Mechanical Engineering, Environmental Engineering, Building Systems Engineering, Building & Architecture Engineering, Building Engineering, Management Engineering and similar science degrees.</p> <p>Candidates participate in a structured recruitment and selection process, based on:</p> <ul style="list-style-type: none">- An online English assessment- An online aptitude test- Preliminary interviews- Motivational interviews- Assessment centres including role play activities, individual presentation, team work activities and individual interviews.

Governance

The “International Construction Management” level I and level II Specializing Master’s is instituted and activated at the Politecnico di Milano, **Department of Architecture, Built environment and Construction Engineering**.

The administrative seat of the Master’s is located at the Politecnico di Milano - CISE Consortium.

The **Director of the Master’s** is Prof. Pietro Crespi.

The **Board** of the Master’s comprises the following professors of the Politecnico di Milano:

- Pietro Giuseppe Crespi
 - Angelo Lucchini
 - Gianandrea Ciaramella.
-

“The training period is a unique opportunity to fully understand and interact with the activities and goals of Salini Impregilo”



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About Salini Impregilo

Salini Impregilo is a leading global player in the construction of major complex infrastructures. It specialises in the water sector, where it is recognised by the Engineering News-Record as the global leader, as well as in railways and metro systems, bridges, roads and motorways, large civil and industrial buildings and airports.

The Group has **110 years** of experience across **five continents**, with design, engineering and construction operations in **50 countries** and over **35,000 employees** of more than **100 nationalities**. Salini Impregilo is a signatory of the United Nations Global Compact and pursues sustainable development objectives to create value for all stakeholders.

It assists clients in strategic areas including energy and mobility, helping to support development and well-being for current and future generations. Its leadership status is displayed in projects such as the new Panama Canal, the Grand Ethiopian Renaissance Dam, the Cityringen metro in Copenhagen, the Riyadh metro system, the Stavros Niarchos cultural centre in Athens, and the new Gerald Desmond Bridge in California. In 2017, new orders totalled **€6.7 billion**, with a total backlog reaching **€34.4 billion**.

Salini Impregilo Group is headquartered in Italy and is listed on the Milan Stock Exchange.

POLITECNICO



MILANO

About Politecnico di Milano

The **Politecnico di Milano** is one of the best scientific-technological universities in the world according to the prestigious QS World University Rankings by Subject, which classified it **among the top 20 universities** in all the three areas of specialisation: 17th in Engineering, 9th in Architecture and 5th in Design.

Founded in 1863, PoliMi is the largest school of Architecture, Design and Engineering in Italy, with 3 main campuses located in Milan, and 5 campuses based around the Lombardy region, one of the most industrialized areas of Europe.






Thanks to a strong **internationalisation policy**, several study programmes are taught entirely in English, attracting an ever-increasing number of talented international students from more than 100 countries. In the 2017/2018 A.Y., 28% of students enrolled in Master of Science Programmes were international.

Today Politecnico avant-garde structures are available to 40,000 students including more than 250 educational and research laboratories. 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.**






www.salini-impregilo.com
www.webuildvalue.com
www.polimi.it

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Credits
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