

# MASTER'S IN "INTERNATIONAL CONSTRUCTION MANAGEMENT"

Salini Impregilo and Politecnico di Milano for Young Graduates  
A Strategic Partnership



DISTINCTIVITY  
BUILDING  
TALENT  
GROWTH  
COURAGE  
GLOBAL  
ACHIEVEMENT  
ATTITUDE  
TARGET  
OPENMINDED  
COMPETENCE  
COMMITMENT  
MOTIVATION  
IDEAS  
FOCUS  
EXPERIENCE  
VISION  
DREAMS  
TEAMWORK  
INFRASTRUCTURE  
SUSTAINABILITY  
PEOPLE  
EXCELLENCE  
SKILLS  
ADVANCE  
VALUE  
CAREER  
PERSEVERANCE  
FUTURE  
INITIATIVE  
OPPORTUNITIES  
POSITIVITY  
ANALYSIS  
INSPIRATION

# MASTER'S IN "INTERNATIONAL CONSTRUCTION MANAGEMENT"

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2017–2018 / *Second Edition*



**POLITECNICO**  
MILANO 1863



salini  
impregilo

## 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 young people and graduates.

### Motives for Salini Impregilo

We aim to share our legacy with talented young 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 young 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 young people at a global level are:

- **help** talented young people to access the employment market
- **support** young people in a sector that has not previously invested sufficiently in new generations and promoting skills development
- **provide** high-quality training to young people 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 our 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.

## 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:

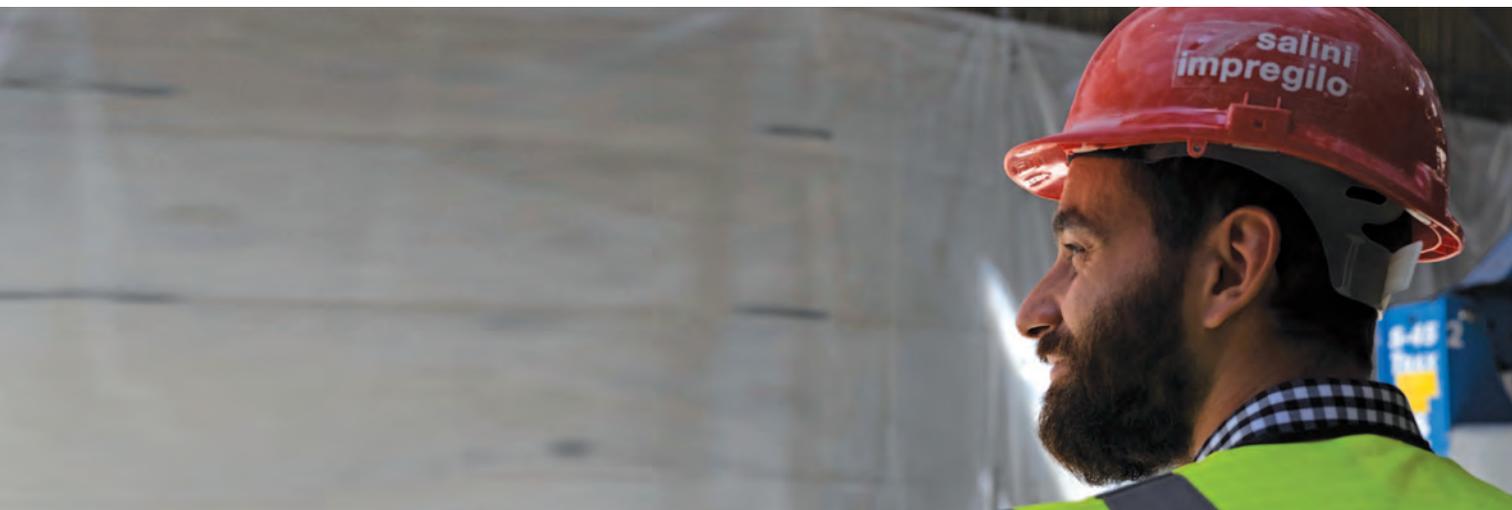
- General introduction to international construction projects
- Business cases developed by Salini Impregilo experts, based on real projects
- Workshops
- Project works
- Site visits
- On-the-job training activities

### 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. Young 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:

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### PART 1

#### PROJECT MANAGEMENT BASICS

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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

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### PART 2

#### FROM TENDER TO PROJECT EXECUTION

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1. International Tender Management
2. Risk Management – Online
3. Project Execution
4. Planning
5. Cost Control
6. Worksite Machinery and Systems
7. Temporary Works to be paid for by the General Contractor: 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

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### 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.

## 2017-2018 SECOND EDITION

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### Starting Point

The Second Edition of the Master's in "International Construction Management" will be launched in May 2017.

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### Applications

The Master's course will involve 15 students. Please read carefully the official regulation to learn more about how to apply.

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### Duration

1 year / Launch event: May 2017

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### Language

English

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### Location

Politecnico di Milano (Lectures)  
Salini Impregilo headquarter and construction sites (curricular internship)

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### Scholarships

Salini Impregilo provides scholarships to support the training path and skills development of outstanding students, before the beginning of the Master's Course, with total or partial coverage of the admission fee.

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### Admission and Selection Process

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.

Candidates participate in a structured recruitment and selection process, based on:

- 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.
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## GOVERNANCE

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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.**

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

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The **Director** of the Master's is Prof. Paola Ronca

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

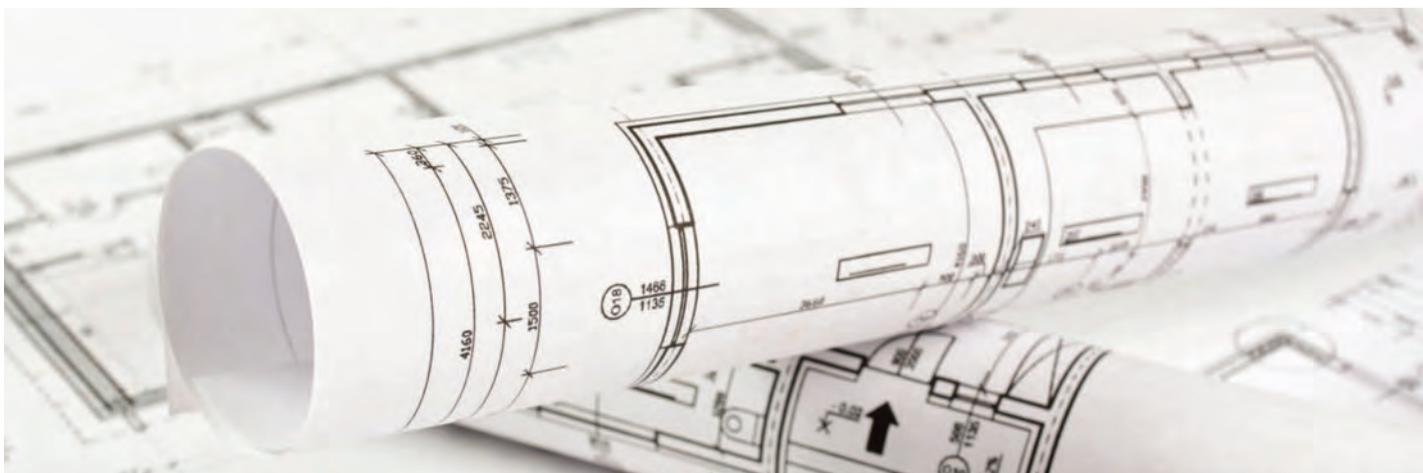
Alberto Franchi  
Paola Ronca  
Angelo Lucchini  
Gianandrea Ciaramella

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And the following Engineers:

Pietro Giuseppe Crespi  
Giovanni Franchi  
Marco Zucca  
and Salini Impregilo Representatives.

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## ABOUT SALINI IMPREGILO

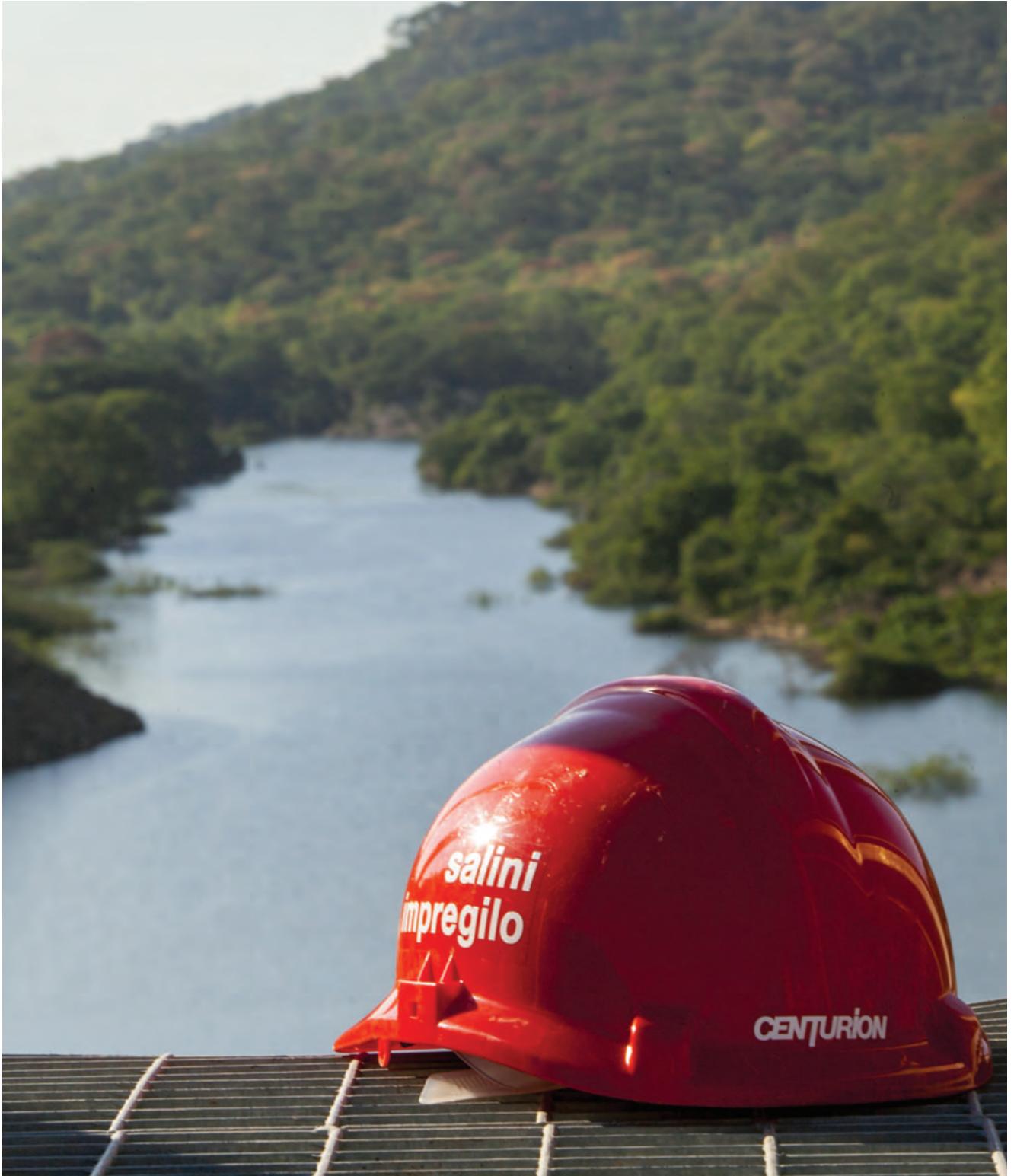
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**Salini Impregilo** is a leading global player in the construction of major complex infrastructures. It specialises in the water sector, where it is recognised by the Engineering News-Record as the global leader, as well as in railways and metro systems, 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 projects include the expansion of the Panama Canal, the Grand Ethiopian Renaissance Dam, the Cityringen metro in Copenhagen, the Red Line North metro in Doha, the Stavros Niarchos Cultural Centre in Athens. In 2015, its revenues (including Lane Construction) totalled approximately **€6 billion**, with a backlog exceeding **€36 billion**.

The Salini Impregilo Group is headquartered in Italy and is listed on the Milan Stock Exchange (Borsa Italiana: SAL; Reuters: SALI.MI; Bloomberg: SAL.IM).



## ABOUT POLITECNICO DI MILANO

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**Politecnico di Milano** is one of the most outstanding universities in the world, ranked 24<sup>th</sup> on a global scale, 7<sup>th</sup> in Europe, and 1<sup>st</sup> in Italy among technical universities, according to **QS World University Ranking – Engineering & Technology 2015**. Founded in 1863, Polimi is the largest school of Architecture, Design and Engineering in Italy, with three main campuses located in Milan, and five campuses based around the Lombardy region, one of the most industrialised 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 2015/2016, 22% of students enrolled in Master of Science Programmes were international.

Strategic research is conducted 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.



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**#TomorrowsBuilders**

## **CONTACTS**

[www.salini-impregilo.com](http://www.salini-impregilo.com)  
[www.polimi.it](http://www.polimi.it)

### **Administrative contacts**

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