## **Application**

The application form and the documentation can be found on the master course website

www.mastertunnelling.polimi.it

oppure

http://www.poliedra.polimi.it/formazione/

and must be sent to

formazione-poliedra@polimi.it

before the 1 st of December 2020.

#### **Selections**

The selections will start in December 2020 and will be made by the master commission, on the basis of the qualifications and experiences inferred from the curriculum presented and on the basis of an interview in order to evaluate the skills and motivations of the candidates.

For further information please visit the website

www.mastertunnelling.polimi.it

or contact the secretariat:

Administrative secretary

Dott.ssa Annalisa Minutillo POLIEDRA - Politecnico di Milano

Via G. Colombo 40 - 20133 MILANO (MI) Tel.: +39 02 23992925 - Fax: +39 02 23992911

E-mail: formazione-poliedra@polimi.it

**Teaching support** 

master-tunnelling-dica@polimi.it

## Fees

The Master costs  $\in$  7,000.00, divided as follows: Contribution for the enrolment  $- \in$  500.00 Master tuition fees  $- \in$  6.500.00

#### **Endorsment**







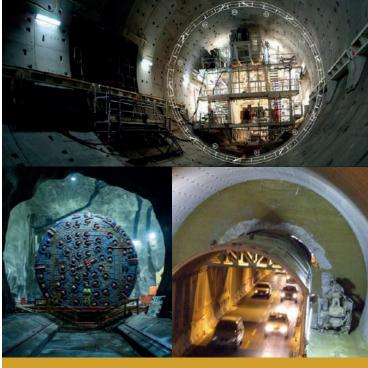


# II Level Master in Tunnel Engineering

2021/2022

- III edition -

**Director: Prof. Claudio di Prisco** 



www.mastertunnelling.polimi.it

#### **PRESENTATION**

## **Contents**

As is testified by the number of kilometers of tunnels constructed every year all around the world, tunnelling is a rapidly expanding sector on a global scale. In this context. suitably trained professionals, with multidisciplinary knowledges are in largely demanded. At the moment, these skills are not provided by the traditional academic courses and cannot be easily acquired during the professional experience. The master course in "Tunnel Engineering", supported by many companies operating in the tunnelling sector, is conceived as a high specializing course, aimed at providing multidisciplinary skills, by defining a complete and articulated framework of all the necessary contents to prepare professionals with operational capabilities in design, construction and project management. Academics teachers and professional, operating both at a national and an international level, will tackle different engineering, technological, organizational, environmental, economical, legislative, strategic, managerial themes.

# **Career opportunities**

The master will give the possibility of getting in touch with academic teachers, professionals and managers. The course aims not only at providing an internationally recognized academic title but also at creating a centre of excellence on tunnel engineering, where the different professionals are capable of interpreting and managing the complexity of the problems and becoming active and innovative actors in the research of new engineering solutions as well as capable of assuming position of responsibility in project management. The career opportunities can be identified in companies of design, construction, manufacturers of materials and technologies, machine producers, infrastructure managements.

The 2<sup>nd</sup> level "Master in Tunnel Engineering" has been activated at the Department of Civil and Environmental Engineering (www.dica.polimi.it).

The School of reference is the School of Civil Environmental and Land Management Engineering of Politecnico di Milano (www.ingcat.polimi.it).

The Master Director is Professor Claudio di Prisco.

The **Master Commission** consists of professors and professionals operting in the tunneling sector:

Prof. Claudio di Prisco – POLIMI Prof. Marco di Prisco – POLIMI Prof. Pietro Lunardi – ROCKSOIL Prof. Federico Perotti – POLIMI

Prof. Jean Sulem – ECOLE DES PONTS, PARIS

Ing. Carlo Silvestri – LOMBARDI Prof. Umberto Perego – POLIMI Prof. Alberto Guadagnini – POLIMI Prof. Maurizio Crispino – POLIMI Ing. Massimo Lodico – Astaldi Prof. Daniele Peila – POLITO Dott. Davide Grassi – BASF

Prof. Mauro Mancini – POLIMI Ing. Giovanni Canetta – CEAS

# Organizing commettee

Dr. Irene Redaelli Dr. Luca Flessati Prof. Claudio di Prisco

**Duration** 12 months

(1st Mar 2021-28th Feb 2022)

Language English
Format Full time

**Commitment** From Monday to Friday

Max partecipants 20 ECTS 60

**Venue** Politecnico di Milano, Campus Leonardo

## **Master Organization**

The master is conceived as a transversal and multidisciplinary course in which theoretical lessons (online), specialist subjects, case studies, technical visits and internships are integrated. The master is a full time course lasting one year. During the first six months the students will attend theoretical lessons, seminars and will take part in technical visits in laboratories and construction sites. During the following six months the students will have the opportunity of participating in internships/projects in different companies, under the supervision of professors and professionals operating in the tunneling sectors. All participants will have access to the course material, in English, that will be uploaded on an online platform and will remain available until the final exam.

**Theoretical online lessons** 360h (Mar 2021-Jul 2021)

Individual study 1100h

**Internship** 480h (Sep 2021-Jan 2022)

Technical visits 40h Project work 120h

#### Coordinators

Prof. Lausa Scesi - POLIMI

Prof. Sebastiano Foti - POLITO

Prof. Carlo De Michele – POLIMI

Prof.Claudio di Prisco – POLIMI

Prof. Federico Perotti – POLIMI

Prof. Emilio Bilotta – UNINA

Prof. Riccardo Castellanza – UNIMIB

Prof. Marco di Prisco - POLIMI

Prof. Pietro Gambarova - POLIMI

Prof. Fabio Inzoli – POLIMI

Prof. Daniele Peila - POLITO

Ing. Giovanna Cassani - ROCKSOIL

Prof. Riccardo Barzaghi – POLIMI

Prof. Maddalena Carsana - POLIMI

Ing. Alberto Selleri – AUTOSTRADE PER L'ITALIA

Prof. Maurizio Crispino - POLIMI

Prof. Lorenzo Domenichini – UNIFI

Prof. Mauro Mancini - POLIMI

Prof. Marco Giorgino – POLIMI