



POLITECNICO
MILANO 1863

II Level Master in Tunnel Engineering

2021/2022

- III edition -

Director: Prof. Claudio di Prisco



Endorsment



Admission requirements

The Master is open to candidates who have a Master of Science in Laurea Magistrale/Specialistica (equivalent to Master of Science) in Engineering, Economics or other scientific fields. For foreign candidates, equivalent academic qualifications in the related academic fields will be evaluated..

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 € 7,000.00, divided as follows:

Contribution for the enrolment – € 500.00

Master tuition fees – € 6,500.00

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 2nd 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 operating 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 committee

Dr. Irene Redaelli

Dr. Luca Flessati

Prof. Claudio di Prisco

Duration	12 months (1 st Mar 2021-28 th Feb 2022)
Language	English
Format	Full time
Commitment	From Monday to Friday
Max participants	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