



POLITECNICO
MILANO 1863

II Level Master in Tunnel Engineering

2019/2020

- II edition -

Director: Prof. Claudio di Prisco



www.mastertunnelling.polimi.it

Admission requirements

The Master is open to candidates who have a Master of Science in Civil or Environmental Engineering. For foreign applicants, the master is open to students holding equivalent qualifications.

Application

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

www.mastertunnelling.polimi.it

and must be sent to

POLIEDRA
Via G. Colombo 40 20133 MILANO (MI)
Telefono: +39 02 23992900 Fax: +39 02 23992911

before the 13 th of February 2019.

Selections

The selections will start in February 2019 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:

Fabiana Musi
Via G. Colombo 40
20131 Milano (MI)
Tel: 0223992902
Fax: 0223992901

Fees

The Master costs € 6,000.00, divided as follows:
Contribution for the enrolment – € 500.00
Master tuition fees – € 5,500.00
Financial aids are available.

Tuition fees and contributions may be paid in two instalments:
1st instalment: € 3,000.00 within 10 days of notification of admission
2nd instalment: € 3,000.00 by the 1st June 2019

Bank account:

Account holder: Poliedra
IBAN: IT27D0335901600100000008723
c/o Banca Prossima,
PIAZZA P. FERRARI 10 20121 MILANO (MI)

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 operting in the tunneling sector:

Prof. Claudio di Prisco – POLIMI
Prof. Marco di Prisco – POLIMI
Prof. Pietro Lunardi – ROCKSOIL
Prof. Federico Perotti – POLIMI
Ing. Roberto Persio – AUTOSTRADE PER L'ITALIA
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

Duration	12 months (1 st Mar 2019-28 th Feb 2020)
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, 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 lessons	360h (Mar 2019-Jul 2019)
Individual study	1100h
Internship	480h (Sep 2019-Jan 2020)
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