

petroleum engineering and operations

13th edition - second level specializing master program

In order to satisfy a larger demand for internationalization, Politecnico di Torino, eni and eni corporate university are promoting the 13th edition of the second level specializing Master program in "Petroleum Engineering and Operations". The program will be taught in English by university professors and corporate teaching staff. The purpose of the program, formulated on the basis of eni's professional needs, is to provide young graduates with a sound technical and managerial knowledge so that they can specialize in the oil&gas industry.

eni reserves the option of hiring students who complete the specializing Master program.



>course structure

The 2nd level specializing Master program lasts one academic year for a total of 80 credits. The teaching program includes 9 months of classroom activities with academic and corporate teaching staff and is structured as follows:

- basic courses:
 - 30 weeks of classroom lectures, valid for all students
- specializing courses:
 - lasting 8 weeks

Reservoir&Drilling	Production&Logistics
Reservoir geology (4 CFU)	Reservoir geology (2 CFU)
Geophysics (4 CFU)	Geophysics (2 CFU)
Rock mechanics (4 CFU)	Rock mechanics (2 CFU)
Reservoir engineering (6 CFU)	Reservoir engineering (2 CFU)
Fluid mechanics in porous media (4 CFU)	
Well drilling (10 CFU)	
Well completion (4 CFU)	
Reservoir numerical simulation (fundamentals) (4 CFU)	
Reservoir numerical simulation (advanced) (6 CFU)	Production facilities (advanced) (6 CFU)
Production facilities (fundamentals) (4 CFU)	
Logistics (2 CFU)	Logistics (8 CFU)
Industrial maintenance and HSE (4 CFU)	Industrial maintenance and HSE (8 CFU)
Energy economics and sustainability (4 CFU)	

- internships:
 - practical training lasting 12 weeks within the eni headquarters.

>target participants

The specializing Master program is intended for:

- Italian and foreign citizens who have graduated from Italian Universities, with an MSc degree in one of the following degree courses ("classi di laurea"): Aerospace and Astronautical Engineering, Chemical Engineering, Civil Engineering, Energy and Nuclear Engineering, Mechanical Engineering, Environmental Engineering, Mathematical-Physics Modelling for Engineering, Naval Engineering, Materials Science and Engineering, Geological Sciences, Geophysical Sciences, Geological Sciences and Technologies;
- Italian and foreign citizens who have graduated from non-Italian Universities, with at least a Bachelor degree + Master of Science (or equivalent or more advanced academic qualification) taken in the following area of study with at least 5 years of university education: Aerospace and Astronautical Engineering, Chemical Engineering, Civil Engineering, Energy and Nuclear Engineering, Mechanical Engineering, Environmental Engineering, Mining Engineering, Naval Engineering, Geosciences, Geology and Geophysics.

To be admitted to the 2nd level specializing Master program, anyone who has a 4-year Bachelor degree must also possess a Master of Sciences taken within the deadline indicated in the following requirements.

>requirements

- for candidates who have graduated from Italian Universities: an MSc degree with a minimum final result of 100/110 or equivalent;
- for candidates who have graduated from non-Italian Universities: an MSc degree result (or equivalent) ranking within the top 20% of graduates of the same academic year and degree course;
- no older than 27 by December 31st, 2015;
- for candidates with Italian citizenship: an MSc (or equivalent) taken by July 31st, 2015;
- for candidates without Italian citizenship: an MSc (or equivalent) taken by March 13th, 2015;
- certified knowledge of written and spoken English with one of the following certificates:
 - Cambridge English for speakers of other languages (minimum score PET with merit);
 - International English Language Testing System - IELTS (minimum score 5.0);
 - Test of English as a Foreign Language - TOEFL (IBT minimum score 77, CBT minimum score 210, PBT minimum score 547);
 - Test of English for International Communication - TOEIC (minimum score 600);
 - Trinity College London (minimum score ISE II).

All candidates must include the above certificates in the "attachments section" of the on-line application form on the Politecnico di Torino website. Candidates who have a Bachelor's degree or a Master of Science taken at a University where English is the curricular language of the course need not produce these certificates. In this case the statement "the educational program is offered in English" should be attached to the transcripts of records of the previous University degrees (both Bachelor's and/or Master of Science). The Technical-Scientific Commission will verify that the requirements are met.

>admission and selection procedures

Application to the specializing Master program must be made by completing the online application form on the website <https://didattica.polito.it/master/petroleum/2016/howtoapply> no later than:

April 14th, 2015 (11:59 a.m. - Italian time)
for candidates who do not have Italian citizenship

The application must be accompanied by all of the following attachments:

- a copy of a valid passport;
- a curriculum vitae (with the statement: I hereby authorize the handling of personal information in accordance with Legislative Decree 196/2003);
- one of the following documents certifying the knowledge of written and spoken English:
 - Cambridge English for speakers of other languages (minimum score PET with merit);
 - International English Language Testing System - IELTS (minimum score 5.0);
 - Test of English as a Foreign Language - TOEFL (IBT minimum score 77, CBT minimum score 210, PBT minimum score 547);
 - Test of English for International Communication - TOEIC (minimum score 600);
 - Trinity College London (minimum score ISE II).
- for applicants who have taken an MSc from a non-Italian University: an official certificate or certificates (with the official stamp of the University attended) of the University degree or degrees, including the list of the exams and corresponding results. The certificate(s) will provide evidence that the applicant's degree result was ranked within the top 20% of graduates of the same academic year and degree course

or

- for applicants who have taken an MSc from an Italian University: "Dichiarazione sostitutiva di certificazione" (Art. 46 of Decree of the President of the Republic n. 445 of December 28th, 2000) of both Bachelor and MSc degrees, with the complete list of exams and corresponding score results.

Important! The curriculum vitae must also be submitted to the eni.com website in the "Lavora con noi" ("Jobs & Careers") section with reference to the following code: MSTTO2015

Failure to submit the CV to the eni website will prevent the possibility of receiving corporate support. Politecnico di Torino will evaluate the applications so as to verify that the academic requirements and qualifications are met: academic and/or professional experience in the oil&gas sector shall be regarded as preferential entitlement for admission.

For admission to the 2nd level specializing Master program, candidates who have passed the screening based on the documentation submitted shall undergo a technical assessment and an aptitude test through a remote interview (in English) with Politecnico di Torino, eni and eni corporate university representatives.

September 4th, 2015 (11:59 a.m. - Italian time)
for candidates who are Italian citizens

The application must be accompanied by all of the following attachments:

- a copy of a valid identification document or passport;
- a curriculum vitae (with the statement: I hereby authorize the handling of personal information in accordance with Legislative Decree 196/2003);
- one of the following documents certifying the knowledge of written and spoken English:
 - Cambridge English for speakers of other languages (minimum score PET with merit);
 - International English Language Testing System - IELTS (minimum score 5.0);
 - Test of English as a Foreign Language - TOEFL (IBT minimum score 77, CBT minimum score 210, PBT minimum score 547);
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- for applicants who have taken an MSc from an Italian University: "Dichiarazione sostitutiva di certificazione" (Art. 46 of Decree of the President of the Republic n. 445 of December 28th, 2000) of both Bachelor and MSc degrees, with the complete list of exams and corresponding results

or

- for applicants who have taken an MSc from a non-Italian University: an official certificate or certificates (with the official stamp of the University attended) of the University degree or degrees, including the list of the exams and corresponding results. The certificate(s) will provide evidence that the applicant's degree result was ranked within the top 20% of graduates of the same academic year and degree course.

Important! The curriculum vitae must also be submitted to the eni.com website in the "Lavora con noi" ("Jobs & Careers") section with reference to the following code: MSTTO2015
Failure to submit the CV on the eni website will prevent the possibility of receiving corporate support.

For the Italian citizens, the technical assessment will consist in a written test (in English) that will be held in Turin on September 16th 2015 at Politecnico di Torino and in an oral interview (in English) that will be held during the period September 21st - October 2nd, 2015 at eni corporate university (San Donato Milanese - MI).

Admission to the oral interview (technical assessment and aptitude test) will be granted only to applicants who have passed the written test.

>corporate support

eni, through eni corporate university, will provide the following corporate support to all participants accepted in the 2nd level specializing Master program:

- for Italian citizens: a scholarship of € 700.00 (seven hundred/00) per month, before deductions as prescribed by Italian law;
 - for non-Italian citizens, to facilitate their transfer to Italy: a scholarship of € 1,150.00 (one thousand, one hundred fifty/00) per month, before deductions as prescribed by Italian law (approximately € 1,000.00 net).
- For residents in the province of Turin, the scholarship shall be granted only during the training period.

N.B. The scholarship must be repaid in full in the following cases:

1. if a recipient abandons the specializing Master program for inexcusable responsibility, at judgment and incontestable discretion of a eni and eni corporate university commission;
2. if a recipient is expelled from the program because of low academic performance¹ or absences exceeding the allowed limit;
3. if the recipient does not accept the eni recruitment offer made within 90 days from completion of the program.

The enrolment fee for the program is € 5,000.00 (five thousand/00) which will be reimbursed (net of the deductions prescribed by the Italian law) to all the participants hired by eni as follows: full reimbursement to graduates from the specializing Master program with average marks above 27/30, 50% reimbursement to all others. This bonus will be reimbursed in two installments, the first upon hiring and the second 6 months later, but it shall be repaid in full by the employee in case of resignation within 24 months from hiring.

>details of the master program

1. The 2015-16 specializing Master program is open to a maximum of 40 participants, of whom at least 75% with Italian citizenship.
2. In case of dual citizenship (foreign and Italian), applicants will be considered as Italian or foreign candidates on the basis of their residence, due to different selection process and economic support.
3. Lectures will be held in English on Politecnico di Torino premises - starting in October 2015 and ending in July 2016, followed by an internship at eni in San Donato Milanese-MI.
4. Attendance is mandatory. Absences will be allowed up to a maximum of 5% of total classroom hours, further absences up to a maximum of 20% will have to be justified by the Technical-Scientific Commission. Absences for more than 20% of total classroom hours will lead to expulsion from the specializing Master program.
5. Enrolment in the "Petroleum Engineering and Operations" specializing Master program is incompatible with enrolment in other Master programs or University courses.
6. The specializing Master program requires a full time commitment from the participants.
7. Participants who complete the one-year program and gain the required total of 80 credits, will be given the second level specializing Master program in "Petroleum Engineering and Operations" by Politecnico di Torino.
8. For the purpose of obtaining the specializing Master degree, the Technical-Scientific Commission will also evaluate the student's participation in activities and the appropriateness of their conduct.
9. The enrolment fee in the specializing Master program is € 5,000.00 (five thousand/00).
10. Politecnico di Torino will provide candidates coming from non-eu countries and accepted on the 2nd level specializing Master program with assistance to obtain an Italian entry visa.

¹Participation will be subject to performance evaluation throughout the course. Exams failure for 20 credits or more will lead to expulsion from the program. Detailed rules about the exams will be provided during the opening day.

Note: the different deadlines for enrolment in the specializing Master program for Italian and foreign citizens are due to the time necessary to obtain an Italian entry visa for study purposes.



eni corporate university

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