



**POLITECNICO  
DI TORINO**

Area Gestione Didattica

LA DIRIGENTE  
Mahée Ferlini

Albo n. 1048/2018

Call for applications  
for the 2<sup>nd</sup> level Specializing Master's  
programme in

“Energy engineering and operations”

offered in apprenticeship format  
(*Art. 45 – D.Lgs. n. 81/2015*)

**Academic Year 2018/2019**

(Annex “A”- Executive Decision of the Head of the Division of Student Affairs  
no. 676/2018 of May 21<sup>st</sup> 2018)



## Art.1

### (Programme overview)

The 2<sup>nd</sup> level Specializing Master's programme in Energy engineering and operations is offered by Politecnico di Torino for academic year 2018/2019.

The programme coordinator is Dario Viberti, from the Department of Environment, Land and Infrastructure Engineering (DIATI) of Politecnico di Torino (hereinafter referred as to "Programme Coordinator").

The duration of this 2<sup>nd</sup> level Specializing Master's programme is one year for a total of 80 ECTS.

This programme is offered in the apprenticeship format (Apprendistato di Alta Formazione e di Ricerca) and it has been designed in close cooperation with the company involved in the educational project, Eni S.p.A. (hereinafter referred as to "Eni").

The purpose of the programme is to provide young graduates with a sound technical and managerial knowledge so that they can specialize in the oil&gas industry.

As a consequence, the 2<sup>nd</sup> level Specializing Master's programme offers its participants a unique opportunity to be trained in an international environment and to gain work experience by getting involved in high-level projects.

In accordance with the above mentioned apprenticeship format, selected candidates will be hired by Eni and upon completion of the programme they will attain a 2<sup>nd</sup> level Specializing Master's diploma.

Eni has undertaken to recruit at least 20 apprentices.

The 2<sup>nd</sup> Level Specializing Master's programme will begin in October 2018 and the apprentices will be recruited by Eni at the same time.

More information on the learning objectives, programme contents and possible career opportunities is available on the website of the 2<sup>nd</sup> Level Specializing Master's programme in Energy engineering and operations at: [https://didattica.polito.it/master/energy\\_engineering/2019](https://didattica.polito.it/master/energy_engineering/2019)

## Art. 2

### (Educational objectives, learning contents and organization of the activities)

This Specializing Master's programme is an experiential learning path which combines educational activities at Politecnico and on-the-job training at the Eni's premises.

The 2<sup>nd</sup> Level Specializing Master's programme is organized as follows:

- training activities at Politecnico di Torino (classroom – laboratory – lecture - business case): approximately 642 hours;
- training activities at Eni: approximately 898 hours, carried out at the employer's premises and at Politecnico di Torino premises.



**Table n.1 – Organization of the courses**

	COURSE	Training activities	Training activities	Training activities (hours)	Training activities (hours)
		ECTS Reservoir & Drilling field	ECTS Production & Logistics field	Politecnico	Eni
1	Reservoir geology	4	2	27	39
2	Geophysics	4	2	37	33
3	Logistics	2	8	72	54
4	Fluid Mechanics in Porous Media	4	4	45	15
5	Reservoir geomechanics	5	3	51	9
6	Reservoir numerical simulation (fundamentals)	5	5	54	6
7	Reservoir Engineering	6	2	66	24
8	Energy Transition	7	7	78	12
9	Well drilling	8	8	0	132
10	Well completion	4	4	0	78
11	Production facilities (fundamentals)	5	5	54	12
12	Industrial maintenance and HSE	4	9	96	27
13	Production facilities (advanced)	-	5	51	9
14	Reservoir numerical simulation (advanced)	6	-	21	48
	Project Work	16	16	0	400
	<b>TOTAL</b>	<b>80</b>	<b>80</b>	<b>642</b>	<b>898</b>

The 2<sup>nd</sup> level Specializing Master's programme will start on October 2018 and will last one year. The official language of the programme is English.

**Art. 3**

**(Admission requirements)**

The 2<sup>nd</sup> level Specializing Master's programme is intended for graduates who have to meet the following compulsory requirements, according to Eni selection criteria:

- to be under the age of 29 on the date of December 31<sup>st</sup> 2018);
- to have been awarded a full degree (Master's degree/Laurea specialistica/Laurea magistrale) in one of the following degree classes/areas of study within July 31<sup>st</sup> 2018:



**Table n. 2 – Degree classes – Areas of study**

Italian Universities	non-Italian Universities
<p>Master's degree obtained in one of the following <b>degree classes ("classi di laurea")</b>:</p> <ul style="list-style-type: none"> <li>• Aerospace and Astronautical Engineering (LM 20)</li> <li>• Chemical Engineering (LM 22)</li> <li>• Civil Engineering (LM 23)</li> <li>• Energy and Nuclear Engineering (LM 30)</li> <li>• Mechanical Engineering (LM 33)</li> <li>• Environmental Engineering (LM 35)</li> <li>• Mathematical-Physics Modelling for Engineering (LM 44)</li> <li>• Naval Engineering (LM 34)</li> <li>• Materials Science and Engineering (LM 53)</li> <li>• Geological Sciences and Technologies (LM 74)</li> <li>• Geophysical Sciences (LM 79)</li> <li>• Physics (LM 17)</li> </ul>	<p>Master's degree* (or equivalent or higher academic qualification) obtained in one of the following <b>areas of study</b> with at least 5 years of university education:</p> <ul style="list-style-type: none"> <li>• Aerospace and Astronautical Engineering</li> <li>• Chemical Engineering</li> <li>• Civil Engineering</li> <li>• Energy and Nuclear Engineering</li> <li>• Mechanical Engineering</li> <li>• Environmental Engineering</li> <li>• Petroleum Engineering</li> <li>• Mining Engineering</li> <li>• Naval Engineering</li> <li>• Geosciences</li> <li>• Geology and Geophysics</li> <li>• Physics</li> </ul> <p>*to be admitted to the Specializing Masters Programme, candidates who have a 4-year Bachelor's degree must also possess a Master's degree obtained within the deadline indicated below.</p>

- to have a Master's degree final grade corresponding to 100/110 or 90/100 (or equivalent)
- to have a good knowledge of the English language, which must be certified by a language certificate included in the list of accepted certificates (see Table n.3 - English language certificates at the end of this article in order to know the required level and accepted certificates). Candidates who have a Bachelor's degree or a Master's degree from a University where English is the medium of instruction do not need to submit these certificates. In this case the University must issue a transcript of records which also states that "The medium of instruction is English".

The Office of Specializing Master's Programmes and Lifelong Learning of Politecnico di Torino will examine the documentation received within the deadline. Only non-Italian university degrees will be evaluated by a specific board chaired by the Coordinator of the 2<sup>nd</sup> Level Specializing Master's programme.

Eni will evaluate only the candidates who meet the above mentioned compulsory requirements.

**Table n.3 – English language certificates**

Examination Board	Certificate	Minimum score accepted
ETS <a href="http://www.ets.org/toefl">http://www.ets.org/toefl</a>	TOEFL ibt	72
	TOEFL cbt	228
	TOEFL pbt	568
	TOEIC	Listening: 400 Reading: 385



Examination Board	Certificate	Minimum score accepted
		Speaking: 160 Writing: 150
Cambridge English Language Assessment ( <a href="http://www.cambridgeenglish.org/exams/">http://www.cambridgeenglish.org/exams/</a> )	Cambridge Preliminary English Test (PET)	Pass with Distinction
	Cambridge English First (FCE)	
	ADVANCED/CAE	
	PROFICIENCY/CPE	
	BULATS	-Reading & Listening: overall score 60 - Writing: overall score B2 -Speaking: overall score B2
Cambridge Assessment English <a href="http://www.cambridgeenglish.org/exams-andtests/qualifications/general">http://www.cambridgeenglish.org/exams-andtests/qualifications/general</a>  formerly known as: Cambridge English Language Assessment <a href="http://www.cambridgeenglish.org/exams">http://www.cambridgeenglish.org/exams</a>	All certificates	Cambridge English Scale: score 162
	BULATS	Reading & Listening: overall score 60 Writing: overall score B2 Speaking: overall score B2
IELTS ( <a href="https://www.ielts.org/">https://www.ielts.org/</a> )	IELTS (International English Language Testing System) – Academic or General training	5.5
Trinity College London ( <a href="http://www.trinitycollege.com/">http://www.trinitycollege.com/</a> )	Trinity ISE	ISE II
Pearson ( <a href="http://pearsonpte.com/">http://pearsonpte.com/</a> )	Pearson Test of English Academic	59
LCCI – EDI / Pearson ( <a href="http://qualifications.pearson.com/en/qualifications/lcci.html">http://qualifications.pearson.com/en/qualifications/lcci.html</a> )	JETSET	JETSET Level 5 or higher Reading: 50% Writing: 50% Listening: 50% Speaking: 50%
	ELSA (English Language Skills Assessment)	Reading, Writing, Listening e Speaking: B2 in all 4 tests
CaMLA ( <a href="http://www.cambridgemichigan.org/exams">http://www.cambridgemichigan.org/exams</a> )	Michigan ECPE (Examination for the Certificate of Proficiency in English)	
	Michigan ECCE (Examination for the Certificate of Competency in English)	
telc GmbH ( <a href="https://www.telc.net/en.html">https://www.telc.net/en.html</a> )	TELC	Reading, Writing, Listening e Speaking: B2 in all 4 tests
AKS Unicert ( <a href="http://www.unicert-online.org/en">http://www.unicert-online.org/en</a> )	UNicert	UNicert II

For international students a good knowledge of the Italian language (written and spoken) is considered an essential prerequisite for the final selection. Eni will assess the candidate's level of proficiency during the interview.

#### Art. 4

#### (Eni selection process and bonus)



After the application deadline, **Eni** will evaluate the applications which meet the compulsory requirements (Art. 3 “Admission requirements”), reserving itself the right to contact only the candidates who meet its internal selection criteria.

The written test and the technical assessment will be held from September 10<sup>th</sup> to September 21<sup>st</sup>, 2018 at Eni Corporate University in San Donato Milanese (MI).

The selected candidates will be hired by Eni within the meaning of art. 45 of D. Lgs 81/2015 in the apprenticeship format “Apprendistato di Alta Formazione e di Ricerca”, receiving a monthly wage, as follows:

- for Italian citizens: 1,000 Euro (one thousand/00) gross, before taxes, as prescribed by Italian law;
- for non-Italian citizens: 1,300 Euro (one thousand, three hundred /00) gross, before taxes, as prescribed by Italian law.

The selected candidates will be considered as Italian or foreign apprentices on the basis of their residence (declared in the on-line application form).

After completion of the programme, Eni will have the option to offer a further work contract to all the participants that will obtain the 2<sup>nd</sup> Level Specializing Master’s diploma in Energy engineering and operations.

Eni will offer an economic bonus to those who graduated from the Specializing Master Programme with an average grade equal or greater than 27/30; this bonus will be paid upon recruitment.

The bonus shall be refunded in full by the employee in case of resignation within 24 months from the date of recruitment.

For further information refer to the website of the 2<sup>nd</sup> level Specializing Master’s programme in Energy engineering and operations: [https://didattica.polito.it/master/energy\\_engineering/2019](https://didattica.polito.it/master/energy_engineering/2019)

## Art. 5

### (Admissions and deadlines)

The Specializing Master’s Programme is open to a maximum of 40 participants.

Applications for this 2<sup>nd</sup> Level Specializing Master’s programme must be submitted on-line by filling out the Application form available on Politecnico di Torino website ([Apply@polito](mailto:Apply@polito)) at the following link: [https://didattica.polito.it/master/energy\\_engineering/2019/howtoapply](https://didattica.polito.it/master/energy_engineering/2019/howtoapply)

Application forms must be submitted within the following deadline:

- September 5<sup>th</sup>, 2018 at 11:59 a.m. - Italian time

The following supporting documents must be attached to the application form (in English or Italian only):

#### MANDATORY DOCUMENTS

- valid identification document (passport for extra-EU applicants)
- curriculum vitae (cv must include the authorization to the processing of personal data – in



compliance with Legislative Decree no. 196/2003);

- Admission Request Form properly filled and signed
- Exam transcripts for **both** Bachelor's and Master's degree programmes:
  - for applicants with degree(s) awarded by a **non-Italian University or by a private Italian University**: official transcript(s), issued by the University of origin, produced on letter headed paper, containing the full list of all the exams passed and the grades obtained. The transcript(s) must also include the date of the degree conferral. Upon enrolment, admitted students must provide the original copy of the "Dichiarazione di Valore"/"Statement of validity" (related to the Master's degree) issued by the Italian Diplomatic Mission in the country where the qualification was awarded. If the Master's degree was awarded by a European university, admitted students can provide the "Diploma Supplement" instead of the "Dichiarazione di Valore".

or

- for applicants with degree(s) awarded by an **Italian Public University**: self-certification ("dichiarazione sostitutiva di certificazione" - Art. 46 DPR 28 December 2000, n. 445) in which the students declare to have obtained **both** a Bachelor's degree and a Master's degree. The self-declaration must include: the name of degree programme, the name of the University, the date of degree conferral, the graduation final grade, the full list of all the exams passed and the grades obtained (this information is required for both degrees). Upon enrolment admitted students must provide the original copy of the self-certification, in compliance with art. 75 of D.P.R. 445/2000. Should the self-certification be found to be false or incorrect, the applicant loses any benefit which he/she might have acquired on the basis of the untruthful declaration.
- English language certificate (as shown at the art.3)
- Residence permit valid for Italy (only for non-EU citizens) valid till October 23<sup>rd</sup> 2018

## **OPTIONAL DOCUMENTS**

- Introduction letter
- Reference letter
- Italian language certificate (only for non-Italian applicants)

Failure to attach even one of the above mandatory documents will result in the exclusion from the selection process.



Candidates are also required to complete the application with compulsory registration on eni.com website (<https://enirecruit.taleo.net/careersection/ext/jobsearch.ftl?lang=it>); during the registration, candidates have to choose the following code: MSTTO2018.

## **Art.6**

### **(Selection outcomes)**

At the end of the selection process carried out by Eni, Politecnico di Torino will publish the list of the candidates admitted to the programme on the online University Bulletin and on the “Selection outcomes” section of the programme website: [https://didattica.polito.it/master/energy\\_engineering/2019](https://didattica.polito.it/master/energy_engineering/2019)

## **Art.7**

### **(Enrolment)**

The candidates who have been admitted to the programme will have to enrol at Politecnico di Torino before the starting date of the 2<sup>nd</sup> Level Specializing Master’s programme. Further information about enrolment will follow by e-mail.

Admitted candidates are not allowed to be simultaneously enrolled in another Specializing Master’s programme nor in any other university programme.

## **Art.8**

### **(Participation fee)**

The participation in the 2<sup>nd</sup> level Specializing Master’s programme is free of charge for admitted students. In accordance with the “Tuition Fee Guide” of Politecnico di Torino, admitted students are exempted from paying their participation fee, but they still have to pay a fee (to be defined) for insurance and revenue stamp.

## **Art. 9**

### **(Qualification)**

Upon successful presentation of the student’s Project Work, Politecnico di Torino will confer the 2<sup>nd</sup> Level Specializing Master’s diploma in Energy engineering and operations.

Participants are required to:

- reach the total amount of 80 ECTS;
- attend at least 75% of total classroom hours.

## **Art. 10**

### **(Competent office)**



The competent office is the Office of Specializing Master's Programmes and Lifelong Learning of Politecnico di Torino, Tel. 0110905713 – e-mail: [master.universitari@polito.it](mailto:master.universitari@polito.it)

## **Art.11**

### **(Person responsible for the administrative procedure)**

The person responsible for the Politecnico di Torino's administrative procedure is Mr. Alberto Pusceddu (Head of the Specializing Masters Programmes and Lifelong Learning Office).

## **Art. 12**

### **(Privacy Information Notice)**

The Privacy Information Notice to be provided to data subjects in accordance to the applicable data protection law is available at: <https://didattica.polito.it/privacy/>.

The personal data included in the on-line application form are processed for the selection and enrolment process only; the data are used by Politecnico di Torino within the institution itself, and exclusively for the purposes of the institution: for this reason, personal data are shared with various offices within the University (to carry out the activities within their competence) without further notification to the applicants.

The personal data included in the on-line application form are also forwarded to the partner companies by Politecnico di Torino for selection purposes.

Owner of the database is Politecnico di Torino, represented by the Rector, with legal seat in Corso Duca degli Abruzzi, 24-10129 Torino.

The person in charge of the student data is the Head of the Division of Student Affairs.

## **Art. 13**

### **(Access to documents)**

Access to all documents is allowed in the forms provided by current legislation.

## **Art. 14**

### **(Final provisions)**

Politecnico di Torino does not take any responsibility in case of unavailability of recipients and for loss of communications due to inexact indication of a candidate's email address or telephone number or due to delay or failure to notify changes to the contacts provided during registration.

This Call is published on the online University Bulletin available at [https://www.swas.polito.it/dotnet/albo\\_online/](https://www.swas.polito.it/dotnet/albo_online/).

The same can be found on [https://didattica.polito.it/master/energy\\_engineering/2018](https://didattica.polito.it/master/energy_engineering/2018)

Torino, 21/05/2018