



**POLITECNICO
DI TORINO**

Area Gestione Didattica

LA DIRIGENTE
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Albo n. 732/2019

Call for applications for the 2nd level Specializing Master's programme in

“Energy engineering and operations”

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

Academic Year 2019/2020

(Annex “A”- Executive Decision of the Head of the Division of Student Affairs
no. 572/2019 of 10/04/2019)



Art.1

(Programme overview)

The 2nd level Specializing Master's programme in Energy engineering and operations is offered by Politecnico di Torino for academic year 2019/2020.

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 2nd 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 energy sector.

As a consequence, the 2nd 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 2nd level Specializing Master's diploma.

Eni has undertaken to recruit at maximum 40 apprentices.

The 2nd Level Specializing Master's programme will begin in October 2019 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 2nd Level Specializing Master's programme in Energy engineering and operations at: https://didattica.polito.it/master/energy_engineering/2020

Art. 2

(Training objective, didactic 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 2nd 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 913 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	21
9	Well drilling	8	8	0	138
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
	TOTAL	80	80	642	913

The 2nd level Specializing Master's programme will start on October 21st 2019 and will last one year.
The official language of the programme is English.

Art. 3

(Admission requirements)

The 2nd 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 31st 2019;
- 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 31st 2019:



Table n. 2 – Degree classes – Areas of study

Italian Universities	non-Italian Universities
<p>Master's degree obtained in one of the following degree classes ("classi di laurea"):</p> <ul style="list-style-type: none"> • Aerospace and Astronautical Engineering (LM 20) • Chemical Engineering (LM 22) • Civil Engineering (LM 23) • Energy and Nuclear Engineering (LM 30) • Mechanical Engineering (LM 33) • Environmental Engineering (LM 35) • Mathematical-Physics Modelling for Engineering (LM 44) • Naval Engineering (LM 34) • Materials Science and Engineering (LM 53) • Geological Sciences and Technologies (LM 74) • Geophysical Sciences (LM 79) • Physics (LM 17) 	<p>Master's degree* (or equivalent or higher academic qualification) obtained in one of the following areas of study with at least 5 years of university education:</p> <ul style="list-style-type: none"> • Aerospace and Astronautical Engineering • Chemical Engineering • Civil Engineering • Energy and Nuclear Engineering • Mechanical Engineering • Environmental Engineering • Petroleum Engineering • Mining Engineering • Naval Engineering • Geosciences • Geology and Geophysics • Physics <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 knowledge of the English language (equivalent to level B2 CEFR) which must be certified by a language certificate included in the list of the 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).

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.

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 2nd 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 http://www.ets.org/toefl	TOEFL ibt	≥ 72
	TOEIC	Listening: 400 Reading: 385 Speaking: 160 Writing: 150



Examination Board	Certificate	Minimum score accepted
CAMBRIDGE Assessment English https://www.cambridgeenglish.org/ formerly known as: Cambridge English Language Assessment	All certificates	Cambridge English Scale score ≥ 162
	Cambridge Preliminary English Test (PET) obtained before 2016	Pass with Distinction (≥ 91) Statement of Results is required
	Cambridge English: FIRST (FCE) obtained before January 2015	≥ 62 Statement of Results is required
	Cambridge English ADVANCED/CAE obtained before 2015	Any score
	Cambridge English: PROFICIENCY/CPE obtained before January 2015	Any score
IELTS (https://www.ielts.org/)	IELTS (International English Language Testing System) – Academic or General training	5.5
Pearson (http://pearsonpte.com/)	Pearson Test of English Academic	59

Candidates are exempted from having one of the above-listed certificates if, within September 5th, 2019 (at 1:00 p.m. - Italian time), they provide a stamped declaration/certificate written on official letter headed paper (to be attached to the on-line application form), which certifies that:

- they have attended at least one school year at a high school in which the medium of instruction is English. In this case the school must issue a certificate stating that “The medium of instruction is English”.
- they have a foreign high school diploma which is recognized by the Italian Ministry of Education and Research as equivalent to the Italian high school diploma (diploma di maturità), or they have a higher qualification awarded by a higher education institution (bachelor of science or master of science or PhD) in which the medium of instruction is English.

In both cases the school must issue a certificate stating that “The medium of instruction is English”.

With regard to points “a” and “b”, please note that diplomas awarded by high schools in the USA, UK, Canada, Ireland, Australia and New Zealand do not need to include the phrase “The medium of instruction is English”.

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 10th to September 25th, 2019 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”.



For further information about monthly wage and economic bonus, please refer to the website of the 2nd level Specializing Master's programme in Energy engineering and operations:
https://didattica.polito.it/master/energy_engineering/2020/objective_contents and
https://didattica.polito.it/master/energy_engineering/2020/fee

Art. 5

(Admissions and deadlines)

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

Applications for this 2nd Level Specializing Master's programme must be submitted on-line by filling out the Application form available on Politecnico di Torino website (*Apply@polito*) at the following link:
https://didattica.polito.it/master/energy_engineering/2020/howtoapply

Applications are due by:

- September 5th, 2019 at 1:00 p.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 the General Data Protection Regulation -EU Regulation 2016/679- and the Personal Data Protection Code, Legislative Decree 30 June 2003 no. 196 and subsequent amendments);
- Application form and questionnaire properly filled and signed (available on the webpage of the Specializing Master's programme
https://didattica.polito.it/master/energy_engineering/2020/deadline_documentation)
- 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. In compliance with art. 75 of D.P.R. 445/2000, should the self-certificate 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 21st 2019

OPTIONAL DOCUMENTS

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

Failure to attach even one of the above mandatory documents causes the exclusion of the applicant 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: MSTTO2019.

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/2020/glance

Art.7

(Participation confirmation, enrolment and documents submission)

Participation confirmation

Admitted candidates who intend to confirm their participation in the Programme have to download the Acceptance Declaration, fill it in and send it by e-mail (master.universitari@polito.it);

Failure to receive the declaration within the aforementioned terms will be considered as final renunciation.



The Programme will start only if the minimum number of 20 participants required (agreed with the partner company) is reached.

Applicants on the reserve list who are eligible for replacement have the possibility to enrol in the programme if one or more participants renounce their offer of admissions. In this case, they are contacted according to their order on the ranking list.

Admitted students are given a deadline to confirm their participation.

Admitted students are invited to inform the Office of Specializing Master's Programmes (master.universitari@polito.it) with an official notification if they decide to decline their offer of admission.

Enrolment

Admitted candidates who confirmed the participation to the Specializing Master's Programme, must enrol in the programme following the instructions and deadlines received by e-mail.

Admitted candidates are not allowed to be simultaneously enrolled in another Specializing Master's Programme nor in any other university programme. Students enrolled in another programme must finish or suspend their studies before enrolling in the 2nd level Specializing Master's Programme in "Energy engineering and operations".

Documents submission

After completing the enrolment process, admitted students must present the original documents uploaded to their Application Form to the Office of Specializing Master's Programmes together with the Acceptance Declaration before the programme starts.

Upon enrolment, participants who hold a degree from a non-Italian University must submit 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 or Statement of Comparability issued by the CIMEA Center.

Participants with a Master's degree awarded by a European university can submit the "Diploma Supplement" instead of the "Dichiarazione di Valore"/"Statement of validity".

Participants with a non-Italian degree who do not submit their "Statement of validity", can enrol in the programme with "condition", but they must present this document within 6 months from the beginning of the programme.

Participants who do not provide the above-mentioned mandatory document by the deadline are placed on a hold and cannot progress in their studies until the document is presented.



Politecnico di Torino reserves itself the right to check the truthfulness of the declarations included in self-certificate sent by the applicants (pursuant to article 46 of DPR no. 445 of 28 December 2000) and excludes admitted students from the programme in the event of false declarations, without prejudice to their criminal liability.

Art.8

(Participation fee)

The participation in the 2nd 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

(Student assessment and final qualification)

The Specializing Master's programme requires full time commitment. Attending activities for at least 75% of the programme is mandatory for all students. Absences for more than this limit leads to exclusion from the Specializing Master's programme.

Participants are required to:

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

STUDENT ASSESSMENT

At the end of each course, participants have to take an exam consisting in a written test. Detailed rules on the exams will be provided during the opening day.

FINAL QUALIFICATION

Upon successful presentation of the student's Project Work, Politecnico di Torino will confer the 2nd Level Specializing Master's diploma in Energy engineering and operations. The Diploma will be issued in Italian.

Art. 10

(Competent office)

The competent office is the Office of Specializing Master's Programmes and Lifelong Learning of Politecnico di Torino, Tel. 0110905758 – e-mail: 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)

Personal data included in the application form will be processed by Politecnico di Torino in accordance with the General Data Protection Regulation (EU Regulation 2016/679) and the Code regarding the protection of personal data (Legislative Decree No. 196 of 30th June 2003 and further amendments) in pursuit of the institutional aims of the university and in accordance with the transparency purposes imposed by the law. Processing of personal data is based on the principles of correctness, lawfulness and relevance of purposes. For the purposes of the execution of this Call, applicants authorize Politecnico di Torino to transfer their personal data to Eni Corporate University and Eni S.p.A., who are independent data controllers acting within the scope of their own functions and responsibilities.

More information about the processing of personal data and the right of access by the data subject are available at https://didattica.polito.it/privacy/index_en.html.

The independent data controller for the university is Politecnico di Torino, represented by the Rector, with statutory seat in Corso Duca degli Abruzzi, 24 - 10129 Torino. For information and inquiries it is possible to contact: privacy@polito.it. It is possible to contact the data protection officer of Politecnico di Torino for any inquiries on the processing of personal data and the right of access by the data subject at dpo@polito.it.

The independent data controller for Eni is Eni Corporate University S.p.A. ("ECU"), with registered office in San Donato Milanese (Mi), Via S. Salvo 1. For information and inquiries it is possible to contact: enicorporateuniversity@pec.enicorporateuniversity.eni.it. It is possible to contact the data protection officer of ECU for any inquiries on the processing of personal data and the right of access by the data subject at dpo@eni.com.

More information about the processing of personal data by ECU is available at [\[https://www.eni.com/docs/it_IT/eni-com/carriere/2019/Privacy-Information-Notice.pdf\]](https://www.eni.com/docs/it_IT/eni-com/carriere/2019/Privacy-Information-Notice.pdf).

Art. 13

(Access to documents)

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

Art. 14

(Final provisions)

1. Communication with applicants takes place primarily through the "Apply@Polito" platform. Specific communications might be sent via email or SMS using the contact details provided by applicants during registration on the platform.



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Area Gestione Didattica

LA DIRIGENTE

Mahée Ferlini

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

3. The Call for applications is published on the online University Bulletin available at https://www.swas.polito.it/dotnet/albo_online. The same can be found on https://didattica.polito.it/master/energy_engineering/2020/glance.

Torino, 10/04/2019