



Politecnico
di Torino



Call for applications
for the 2nd level Specializing Master's programme
in
“Natural resources development & storage”

Academic Year 2023/2024

(Annex “A”- Rector's Decree no. 523/2023 of 29/05/2023)



Politecnico
di Torino



Art.1

(Programme overview)

Politecnico di Torino in collaboration with Eni Corporate University S.p.A., as a principal and representative of Eni S.p.A., (hereinafter referred to as "Eni"), has activated, in accordance with D.M.270/2004, for academic year 2023/2024 the nineteenth edition of the 2nd level Specializing Master's programmes in "Natural resources development & storage (hereinafter referred to also as "MiNDS").

The 2nd level Specializing Master's Programme MiNDS (hereinafter referred to also as the "2st level Master MiNDS") is addressed to 30 young recently graduated students who want to acquire a deep and high-level knowledge in the energy sector, with a focus on natural resources and energy transition.

The Programmes coordinator is Dario Viberti, from the Department of Environment, land and infrastructure engineering (DIATI) of Politecnico di Torino (hereinafter referred to as "Programmes Coordinator").

Art. 2

(Training objective, didactic contents and organization of the activities)

The purpose of the programme is to provide up to 30 young graduates with a sound technical and managerial knowledge so that they can specialize in the energy industry. The 2nd level specializing Master is a full-time programme of approximately one academic year duration for a total of 80 ECTS; it will start in October 2023 and end in October 2024.

The teaching programme includes 8 months of classroom activities with academic and corporate teaching staff and it is organized as follows:

- Phase 1 - common courses: from the end of October 2023 to March 2024 classroom lectures, valid for all students;
- Phase 2 - students will be divided in two different classes, Reservoir and Production & Drilling, for about 9 weeks of classroom lectures (see table n. 1);
- Phase 3 - internships: on the job training lasting about 10 weeks at Eni premises.



Politecnico
di Torino



Table n.2 – Organization of the courses

Reservoir section	Production & Drilling section
Natural Resources Geology & Geophysics* (6 ECTS) Fluid & Porous Media Characterization & Dynamics* (5 ECTS) Geomechanics* (3 ECTS) Well Innovative Technologies and Digital Solutions for Energy Transition* (3 ECTS) Well Design and Technologies for Subsurface Resources Unlocking* (3 ECTS) Multipurpose Lifecycle Well Architecture* (6 ECTS) Reservoir Engineering and Storage* (5 ECTS) Logistics* (2 ECTS) Production Facilities and Digital & AI Applications* (4 ECTS) Risk Management, Process Safety and HSE* (2 ECTS) Asset Integrity Management* (2 ECTS) Maintenance and Digital & AI Applications* (2 ECTS)	
Reservoir Geology & Geophysics for Development and Storage (5 ECTS)	Well Drilling for Natural Resources, Development and Storage (9 ECTS)
Reservoir Geomechanics For Ccs and Sustainability) (3 ECTS)	Well Completion for Natural Resources, Development and Storage (5 ECTS)
Reservoir Engineering and Storage: Advanced Applications and Digital Techniques (5 ECTS)	Production Facilities Advanced (4 ECTS)
Reservoir Modelling & HPC Simulation (10 ECTS)	Energy Trends & Efficiency and Applications of Circular Economy (2 ECTS)
Reservoir Modelling for CCS (2 ECTS)	Maintenance Optimisation and Reliability Centered Maintenance (3 ECTS)
	Maintenance & Asset Integrity Management System (2 ECTS)
Project Work (12 ECTS)	

* Teaching course shared with 1st level specializing Master's programme MiNDS

The official language of the programme is English.

Classes are held in presence at Politecnico di Torino – Campus Lingotto starting in October 2023 and ending in June 2024. An internship period at Eni in San Donato Milanese (MI) will follow.

The programme is residential.

Art. 3

(Admission requirements)

The programme is intended for both Italian and foreign citizens who must:

- have earned a Master's degree (or equivalent qualification) within September, 30th 2023;



Politecnico
di Torino



- to have a Master's degree final grade corresponding to 100/110 (or equivalent);
- aged not older than 29 years on December 31st, 2023 (born after 31st December 1993);
- prove to have a good knowledge of the English language, which Eni will verify under its selection standards.

In order to be admitted to this 2nd Level Specializing Master's Programme, you must hold, by September, 30th 2023, a full degree (Master of Science degree/*Laurea specialistica*/*Laurea magistrale*) in one of the following areas (D.M. 270/2004):

Table n. 4

Italian Universities	non-Italian Universities
<p>Master's degree obtained in one of the following degree classes ("<i>classi di laurea</i>"):</p> <ul style="list-style-type: none"> • Physics (LM 17) • Aerospace and Astronautical Engineering (LM 20) • Chemical Engineering (LM 22) • Civil Engineering (LM 23) • Energy and Nuclear Engineering (LM 30) • Computer Engineering (LM 32) • Mechanical Engineering (LM 33) • Environmental Engineering (LM 35) • Mathematics (LM 40) • Mathematical-Physics Modelling for Engineering (LM 44) • Materials Science and Engineering (LM 53) • Geological Sciences and Technologies (LM 74) • Geophysical Sciences (LM 79) 	<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"> • Physics • Aerospace and Astronautical Engineering • Chemical Engineering • Civil Engineering • Energy and Nuclear Engineering • Computer Engineering • Mechanical Engineering • Environmental Engineering • Petroleum Engineering • Mining Engineering • Mathematics • Geosciences • Geology and Geophysics <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 above.</p>

For foreign applicants, a good knowledge of written and spoken Italian will be considered preferential, possibly supported by certificates of understanding of the Italian language. The level of knowledge will be assessed during the selection process.



Politecnico
di Torino



Even if you have not earned your Master's degree yet but are going to graduate within September, 30th 2023 can submit your application for admission to the programme.

It is not allowed to submit the applications for both 1st and 2nd level specializing Master's Programme MiNDS.

Art. 4

(Application deadline and admission process by Politecnico di Torino)

You can apply for admission for this Specializing Master's Programme ONLY through the Application Form available at:

<https://www.polito.it/en/education/specializing-master-s-programmes-and-lifelong-learning/specializing-master-s-programmes/specializing-master-s-catalogue/natural-resources-development-and-storage-0>.

DO NOT apply by e-mail, fax or mail because these applications will not be considered.

Applications are due by:

- **September 4th 2023** at 2 p.m. - Italian time

You can find the list of mandatory documents that you must attach to your application.

Please note: only documents in English or in Italian will be accepted.

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 (available on the webpage of the Specializing Master's programme <https://didattica.polito.it/master/home/en/request>)
- list of exams of both Bachelor's and Master's degree programmes (or equivalent):
 - o If your degree(s) was awarded by a non-Italian University or by a private Italian University: official transcript(s) of records, issued by the University of origin, produced on



Politecnico
di Torino



letter-headed paper, containing the full list of all the exams passed, the grades obtained the graduation final grade, final thesis topic and the date of degree conferral.

or

- o If your degree(s) was awarded by an Italian Public University: self-certificate (*dichiarazione sostitutiva di certificazione* - Art. 46 DPR 28 December 2000, n. 445) in which you declare that you earned both a Bachelor's and a Master's degree. Your self-certificate must include: name of degree programme, name of the University, date of degree conferral, full list of all the exams passed and grade obtained, final thesis topic and graduation final grade. In compliance with art. 75 of D.P.R. 445/2000, should your self-certificate be found to be false or incorrect, you will lose any benefit acquired based on your untruthful declaration.

- Residence permit (for extra-EU citizens only) valid for Italy until December 2023

OPTIONAL DOCUMENTS

- English Language Certificate
- Motivation Letter
- Official certificates related to other academic careers (i.e. PhD, Master Universitari ecc.)
- Certificates related to professional courses
- Reference letter

If you fail to attach even one of the above mandatory documents, you will be excluded from the selection process.

Admission process by Politecnico di Torino

The Unit of Specializing Master's Programmes, Lifelong Learning and Challenge, having received the applications, will evaluate the eligibility of each application based on the admission requirements provided for in Art. 3 and will publish the list of eligible candidates admitted to Eni selection process (see Art. 5) on the online University Bulletin and on the Selection Outcomes page of the Specializing Master Programmes' website:

<https://www.polito.it/en/education/specializing-master-s-programmes-and-lifelong-learning/specializing-master-s-programmes/specializing-master-s-catalogue/natural-resources-development-and-storage-0>



Politecnico
di Torino



Only non-Italian university degrees will be assessed by a specific board chaired by the Programmes Coordinator in order to evaluate the foreign qualification based on the admission requirements provided for in Art. 3.

All the applications evaluated eligible will be forwarded to Eni for the next phase of the selection process.

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

Art. 5

(Eni Selection process and outcomes)

Eni and its affiliated companies will carry out the selection process in line with their internal procedures and policies (<https://www.eni.com/it-IT/cariere/master-minds.html>), in order to select the candidates who will take part in the 2nd level specializing Master's Programme MiNDS.

Eni, in accordance to its recruitment policy, will contact the applicants who will be assessed through different following selection steps such as an English test, in order to verify language level, and an attitudinal and technical test.

The selection process will be held approximately by the end of September 2023 and will be carried out online, according to the number of applications received. Indications and instructions on the selection process will be communicated by Eni to applicants by email in the lead-up to the selection process.

At the end of the selection process, Eni will communicate the results to each applicant. Those who successfully pass the selection will be enrolled in the 2nd level Master MiNDS and will receive a monthly participation scholarship from Eni for the entire duration of the programme (see Art. 9).

Art. 6

(Enrolment and documents submission)

Enrolment

If you are admitted, you must enroll at Politecnico before the Programmes starts. You will receive an e-mail with useful information for your enrolment.



Politecnico
di Torino



Documents submission

After completing the enrolment process, admitted students must present the original documents uploaded to their Application Form to the Unit of Specializing Master's Programmes, Lifelong Learning and Challenge before the programme starts (please refer to Art. 4).

If your degree was awarded by a non-Italian University, upon enrolment you must submit the original copy of the *Dichiarazione di Valore*/Statement of validity (related to your degree) issued by the Italian Diplomatic Mission in the country where the qualification was awarded, or *Attestato di Comparabilità*/Statement of Comparability issued by the CIMEA Centre.

If your degree was awarded by a European university, you can submit your Diploma Supplement instead of the *Dichiarazione di Valore*/Statement of validity.

If you do not submit your Statement of validity, you can enrol in the programme with condition, but you must present this document within 6 months of the beginning of the programme. If you do not provide the above-mentioned mandatory document by the deadline, you are placed on hold and cannot progress in your studies until you actually present this document.

If you are a non-EU national, you are required to comply with the norms on entry visa¹ and residence permit. You have to submit:

- Student Visa – type D for participants who are non-EU citizens residing abroad.
- Valid residence permit for non-EU citizens residing in Italy.

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 Politecnico excludes them from the ranking list in the event of false declarations.

Art. 7

(Student assessment and final qualification)

The Specializing Master's Programmes require you full time commitment. You are requested to attend activities for at least 75% of the Programmes.

Absences for more than this limit leads you to exclusion from the Specializing Master's Programmes.

Withdraw from the Programmes must be put in writing.

¹ Please refers to the MIUR/MAE note: "Procedures for entry, stay and enrolment of students applying for visas in higher education programmes in Italy for the 2023/24 academic year".



Politecnico
di Torino



STUDENT ASSESSMENT

At the end of each course, you have to take an exam consisting in a written test and/or an oral evaluation test.

If you fail the exam, you can arrange a make-up exam directly with the professor responsible for the course. You can take a make-up exam just once.

At the end of the Programme, participants make a final report related to their project work and are assessed for it.

The final grade is assigned by the Graduation Examining Committee who will assess the overall average grade of all the exams on a scale of 110. Exams passed with honours do not have an impact on the Average grade. The Graduation Examining Committee can add up to a maximum of 5 points, taking into consideration the evaluation of the work you have carried out for the project work (dedication, autonomy, methodological rigour, relevance of results, etc.). If you reach the score of 110/110, the Graduation Examining Committee might decide to confer the degree with honours (cum laude). The decision must be taken by qualified majority (at least 2/3 of the Committee members must vote in favour of awarding this distinction).

More details about the exams, final presentation and project work will be presented during the programme.

FINAL QUALIFICATION

Upon completion of the programme, participants who regularly attended the activities and earned all the ECTS required for graduation, are awarded the "Natural resources development & storage" 2nd level Specializing Master's diploma by the Politecnico di Torino. The Diploma will be issued in Italian.

If, at the end of the Specializing Master's Programme, you have not passed all the exams included in your Study Plan you can get a Certificate of Attendance and a Transcript of Records with the list of the exams that you have passed with grades, dates, credits and scientific disciplinary field.

Art. 8

(Participation and enrolment fee)

The students selected by Eni will not pay any participation fees.

In accordance with the "Tuition Fee Guide" of Politecnico di Torino, admitted students exempted



Politecnico
di Torino



from paying the participation fee, have to pay € 21,00² detailed as follow:

1. Premium for accident insurance: € 5,00
2. Enrolment revenue stamp: € 16,00

The issue of the diploma of the 2nd level Specializing Master's Programme in Natural resources development & storage requires the payment of a revenue stamp (€ 16,00).

Art. 9

(Scholarship support)

SCHOLARSHIP

Eni offers scholarships to all the participants of the Specializing Masters Programme.

For 2nd level Master MiNDS the information is available here:

<https://www.polito.it/en/education/specializing-master-s-programmes-and-lifelong-learning/specializing-master-s-programmes/specializing-master-s-catalogue/natural-resources-development-and-storage/enrolment>.

Art. 10

(Competent Unit)

The competent unit is the Unit of Specializing Master's Programmes, Lifelong Learning and Challenge of Politecnico di Torino, Tel. 01 10907986 – 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 Unit of Specializing Masters Programmes, Lifelong Learning and Challenge).

Art. 12

(Processing of Personal Data)

Politecnico di Torino and Eni both act as autonomous data controllers and are committed to operating in full compliance with the applicable personal data protection legislation to them in relation to the data processing activities related to the execution of this Call for applications. In particular, students' personal data are processed by Politecnico di Torino exclusively for institutional

² The insurance premium may change due to new rules adopted by Edisu and to the stipulation of an insurance contract



Politecnico
di Torino



purposes of education and by Eni as indicated in the privacy notice in Annex 1. The processing of personal data is based on the principles of correctness, lawfulness and relevance of purposes. In order to pursue the “Specializing Master’s Programmes in Natural resources development & storage” candidates agree that the Politecnico di Torino shares their personal data with Eni S.p.A (hereinafter “Eni”).

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) personal data are processed by Politecnico di Torino exclusively for the selection and enrolment process in pursuit of the university aims and in accordance with the transparency purposes imposed by the law. The processing of personal data is based on the principles of correctness, lawfulness and relevance of purposes. More information on the processing of personal data is available at: <https://didattica.polito.it/privacy/>.

The Data Controller is Politecnico di Torino, represented by the Rector, with statutory seat in Corso Duca degli Abruzzi, 24-10129 Torino.

You can contact the Data Controller at politecnicoditorino@pec.polito.it (certified e-mail).

For further information and inquiries write to privacy@polito.it.

You can contact the Data Protection Officer (DPO) of Politecnico di Torino for inquiries on the processing of your personal data and your rights at: dpo@polito.it; dpo@pec.polito.it (certified email).

For the Politecnico di Torino the privacy policy is available at: <https://didattica.polito.it/privacy>

Eni, acting as data controller, provides its privacy information notice in Annex 1.

You can contact Eni at its Data Protection Officer email address DPO@eni.com

Art. 13

(Access to documents)

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

Art. 14

(Final provisions)

1. The Programme will start only if the minimum number of participants is reached.
2. Communication with applicants takes place primarily through the “Apply@Polito” platform.



Politecnico
di Torino



Specific communications might be sent via email or SMS using the contact details provided by applicants during registration on the platform.

3. 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.
4. 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://www.polito.it/en/education/specializing-master-s-programmes-and-lifelong-learning/specializing-master-s-programmes/specializing-master-s-catalogue/natural-resources-development-and-storage-0>.



Politecnico
di Torino



Annex 1 Eni Information Privacy Notice

Pursuant to Regulation (EU) 2016/679 ("GDPR"), the Company Eni S.p.A. ("Eni" or the "Controller") hereby provides the following information regarding the processing of your personal data - provided by you and/or acquired from third parties - as part of your application and possible participation in the 1st level Master's programme in "Natural resources development & storage" ("Programme").

1. Identity and contact details of the Controller

Eni S.p.A., with registered office in Piazzale Enrico Mattei, 1 – 00144 – Roma, VAT Number 00905811006, which will act as controller.

2. Data Protection Officer ("DPO") contact details

Eni has appointed a Data Protection Officer, who can be contacted at the following e-mail address DPO@eni.com.

3. Purpose of processing and legal basis

The Controller will process your data in order to acknowledge your application to the Programme, to carry out the evaluations as part of the selection process, to allow your possible participation in the Programme and in the related training activities, possibly to disburse the scholarship and to fulfil any other obligations arising therefrom, also in light of the agreements between the Controller and the Politecnico di Torino. The provision of data is necessary and without it it will not be possible to guarantee the performance of the activities envisaged. Furthermore, the Controller shall process your data on the basis of the legitimate interest deriving from the hosting and the possible acquisition of the results deriving from the Programme and produced during the activities connected to it. Finally, the Controller may process your data in order to comply with legal obligations (in which case the provision of data is necessary) and/or for the purpose of defending its own and/or third parties' interests and rights.

The communication of your data for the above-mentioned purpose is necessary for the correct management of the Call and of the related obligations.

4. Categories of data processed

Eni will process the following categories of personal data

- Personal data (name, surname, date of birth etc.);
- Contact data (e-mail address, etc.);
- Data related to activities carried out in the company

5. Recipients of personal data



Politecnico
di Torino



For the pursuit of the purposes indicated in paragraph 3, the Controller may communicate your data to subjects that provide services to the Controller, as well as to public institutions and/or associations to which the data must be communicated in accordance with the law.

The Controller guarantees the utmost care to ensure that the communication of your personal data to the aforementioned recipients only concerns the data necessary to achieve the specific purposes for which they are intended. Your personal data are stored in the Controller's databases and will only be processed by authorized personnel. The latter will be provided with specific instructions on the methods and purposes of processing. Furthermore, these data will not be communicated to third parties, except as provided for above and, in any case, within the limits indicated therein. Finally, we remind you that your personal data will not be disclosed, except in the cases described above and/or provided for by law.

6. Transfer of personal data outside the EU

In the context of the contractual relationship between the Controller and its subsidiaries for the purposes indicated in paragraph 3, your personal data may be transferred outside the EU, including by means of inclusion in databases shared and managed by third parties outside the Controller's area of control. The management of the database and the processing of such data are bound to the purposes for which they were collected and are carried out in full compliance with the standards of confidentiality and security set out in the applicable data protection laws. Whenever your personal data are transferred internationally outside the EU, the Controller will take all appropriate and necessary contractual measures to ensure an adequate level of protection of your personal data in accordance with the provisions of this Privacy Policy, including, among others, the Standard Contractual Clauses approved by the European Commission.

7. Data retention period

The data will be kept for a period of time not exceeding that necessary for the purposes for which they were collected or subsequently processed in accordance with legal obligations. In particular, your data will be processed for 10 years from the date of this call except in the case of the acquisition of research results deriving from the activity covered by this Call.

In the event that the purposes set out in the preceding paragraphs are no longer fulfilled, the owner will dispose of your personal data in accordance with the applicable data protection laws.



Politecnico
di Torino



8. Rights of the data subjects

As a data subject, you are entitled to the following rights on the personal data collected and processed by the Controller for the purposes indicated in paragraph 3.

(a) Right of access - You have the right to obtain from the Controller confirmation as to whether or not personal data concerning you are being processed and, if so, to obtain access to the personal data and the following information: (i) the purposes of the processing; (ii) the categories of personal data concerned; (iii) the recipients or categories of recipients to whom the personal data have been or will be disclosed, in particular if they are recipients in third countries or international organizations; (iv) where possible, the expected period of retention of the personal data or, if this is not possible, the criteria used to determine this period; (v) the right to lodge a complaint with a supervisory authority.

(b) Right of rectification - You have the right to have inaccurate personal data relating to you rectified and, having regard to the purposes of the processing, the right to have incomplete personal data supplemented, including by providing a supplementary declaration.

c) Right to erasure - You also have the right to obtain the erasure of personal data concerning you if any of the following reasons apply: (i) the personal data are no longer necessary in relation to the purposes for which they were collected or otherwise processed; (ii) the data are unlawfully processed; (iii) you have withdrawn the consent on the basis of which the Controller was entitled to process your data and there is no other legal basis allowing the Controller to process the data; (iv) you have objected to the processing activity and there is no overriding legitimate reason; (v) the personal data must be erased in order to comply with a legal obligation. However, the Controller is entitled to disregard the exercise of the abovementioned erasure rights if the right to freedom of expression and information prevails or for the exercise of a legal obligation or to defend its own right in court.

d) Right to restriction of processing - You have the right to obtain from the Controller the restriction of processing when one of the following applies: (i) for the period necessary for the Controller to verify the accuracy of such personal data concerning you whose accuracy you have contested; (ii) in case of unlawful processing of your personal data; (iii) also if your personal data are not necessary for the purposes of the processing, in any event it is necessary for them to be processed for the establishment, exercise or defense of legal claims; (iv) for the period necessary to verify whether the legitimate reasons of the Controller prevail over your request to object to the processing.