



## SELECTION ANNOUNCEMENT NO. 2025S66

**BY EXAMINATIONS, TO RECRUIT NO. 1 LEVEL II RESEARCH TECHNOLOGIST (FINANCIAL POSITION EQUIVALENT TO THE D3 LEVEL) ON A FULL-TIME, FIXED-TERM CONTRACT, FOR NO. 24 MONTHS, PURSUANT TO ART. 24-BIS OF LAW NO. 240 OF 30.12.2010, AND TO THE NATIONAL COLLECTIVE BARGAINING AGREEMENT OF 19.04.2018, AT THE DEPARTMENT OF CIVIL, ENVIRONMENTAL AND ARCHITECTURAL ENGINEERING – ICEA OF THE UNIVERSITY OF PADOVA.**

By implementing art. 24-bis of Law no. 240 of 30.12.2010 and the National Collective Bargaining Agreement of 19.04.2018, the University of Padua plans to recruit no. 1 Level II research Technologist (financial position equivalent to the D3 level), by qualifications and examinations, on a full-time, fixed-term contract, for no. 24 months, at the Department of Civil, Environmental and Architectural Engineering – ICEA.

The Technologist will be called to carry out **activities** in support of the project "Organization and interpretation of flow monitoring results, chemical analyses, and data collected from multiparametric probes and the qualitative-quantitative model of the Sile River", the strengthen of the monitoring and modeling of complex hydraulic systems, particularly those related to the built environment, by developing field monitoring systems, as well as physical laboratory models, and analyzing the collected data using statistical techniques and interpretative numerical models.

The technologist's activities will include the following:

- management/maintenance of field and laboratory instrumentation for quantitative and qualitative investigations;
- development of numerical models for the interpretation of experimental results;
- participation in site inspections and field surveys;
- drafting reports describing the monitoring, interpretation, and modeling of the acquired data.

Furthermore, the technologist will provide technical support:

- for the organization of site inspections and field investigations;
- for the creation of experimental physical models and research related to hydraulic construction;
- for the development of basic research activities regarding the reliability assessment and risk analysis of hydraulic structures.

To perform the above activities, the following **professional skills, knowledge, and expertise** are required:

Knowledge, including through experience, in the following areas:

- use of instruments for measuring flow in rivers and canals, such as current profilers (ADCP) and radar/ultrasonic sensors;
- field installation and programming of water sampling systems (monitoring the quality of water in rivers and canals);
- use of instruments and sensors for laboratory measurement of parameters such as level, velocity, pressure, flow rate, conductivity, density, and volumetric soil water content;
- methods for assessing the hydraulic risk of existing structures (bridges, underpasses, pumping stations, flood control systems); special structures in urban drainage systems.

Knowledge of:

- procedures for the analysis, classification and management of risk and for the assessment of the reliability and safety of existing structures;
- hydraulic analysis models for pressurized and free-surface water networks (EpaNET, SWMM, InfoWorks ICM, Hec-Ras, Flow3D);

- data analysis, processing, and programming methods (Excel, AutoCAD, MathLab or Phyton, ArcGIS or QGIS);
- word processing and presentation software (Word, Powerpoint, LaTEX, or Overleaf);
- English language (target level: B2).

#### **Admission requirements**

Candidates must have the following requirements by the selection announcement deadline:

##### **a) academic qualification**

- a first-cycle degree (*Laurea ex D.M. 270/2004*) in class: L-7 Ingegneria civile e ambientale, L-17 Scienze dell'Architettura, L-23 Scienze e tecniche dell'edilizia;  
or a first-cycle degree (*Laurea ex D.M. 509/1999*) recognised as equivalent by Interministerial Decree 09.07.2009 in class: 04 Scienze dell'Architettura e dell'Ingegneria edile, 08 Ingegneria civile e ambientale;  
or an Italian University Diploma (*Diploma delle Scuole dirette a fini speciali ex D.P.R. 162/1982*) recognised as equivalent by Interministerial Decree 11.11.2011: Rilevamento e rappresentazione dei beni architettonici, Topografo esperto;  
or an Italian University Diploma (*Diploma universitario ex Legge 341/1990*) recognised as equivalent by Interministerial Decree 11.11.2011: Ingegneria dell'ambiente e delle risorse, Ingegneria delle infrastrutture, Ingegneria delle strutture, Edilizia, Ingegneria edile;
- or a second-cycle degree (*Laurea Magistrale "a ciclo unico" ex D.M. 270/2004*) in class: LM-4 Architettura e Ingegneria edile-architettura;  
or a second-cycle degree (*Laurea Magistrale ex D.M. 270/2004*) in class: LM-22 Ingegneria chimica, LM-23 Ingegneria civile, LM-24 Ingegneria dei sistemi edilizi, LM-26 Ingegneria della sicurezza, LM-27 Ingegneria delle telecomunicazioni, LM-28 Ingegneria elettrica, LM-30 Ingegneria energetica e nucleare, LM-35 Ingegneria per l'ambiente e il territorio;  
or a second-cycle degree (*Laurea Specialistica "a ciclo unico" ex D.M. 509/1999*) recognised as the equivalent by D.I. 09.07.2009 in class: 4/S Architettura e Ingegneria edile;  
or a second-cycle degree (*Laurea Specialistica ex D.M. 509/1999*) recognised as the equivalent by D.I. 09.07.2009 in class: 27/S Ingegneria chimica, 28/S Ingegneria civile, 30/S Ingegneria delle telecomunicazioni, 31/S Ingegneria elettrica, 33/S Ingegneria energetica e nucleare, 38/S Ingegneria per l'ambiente e il territorio;  
or a degree (*Diploma di Laurea ante D.M. 509/1999*) recognised as equivalent by Interministerial Decree D.I. 09.07.2009: Architettura, Ingegneria edile-architettura, Ingegneria chimica, Ingegneria civile, Ingegneria edile, Ingegneria delle telecomunicazioni, Ingegneria elettrica, Ingegneria nucleare, Ingegneria per l'ambiente e il territorio;  
or a degree (*Diploma di Laurea ante D.M. 509/1999*) recognised as equivalent by Interministerial Decree D.I. 26/04/2011): Ingegneria civile per la difesa del suolo e la pianificazione territoriale.

##### It is specified that:

A degree (*Diploma di Laurea ante D.M. n. 509/1999*): Architettura must be recognised as the equivalent of an LM-4 second-cycle degree (*Laurea Magistrale*) by the awarding university.

A degree (*Diploma di Laurea ante D.M. n. 509/1999*): Ingegneria elettrica must be recognised as the equivalent of an LM-26 or an LM-28 second-cycle degree (*Laurea Magistrale*) by the awarding university.

##### It is, also, specified that:

Candidates holding a foreign degree may take part in the selection under the following conditions:

- if they hold a **declaration of equivalence issued by an Italian University**;
- if they do not have any equivalence, the candidates are provisionally admitted to the selection, pursuant to Art. 38, paragraph 3 of Legislative Decree DL 165/2001. In this case, candidates shall declare, while submitting their application, that they hold a foreign degree officially recognised by the country in which they obtained the title, and, at the same time, should they pass the selection exams, they shall start the equivalency process by sending the request of equivalence to the Italian Ministry for Universities and Research (MUR) within 15 days from the publication of the final ranking.

The degree-equivalency application form is available at the following link:

<https://www.funzionepubblica.gov.it/it/il-dipartimento/documentazione/moduli-equivalenza-titoli-di-studio/>

- b) specific **cultural or professional qualification** related to the type of activities the candidate will carry out:
  - **PhD in Water Engineering (ERC Domain: PE8\_3 Civil engineering, maritime/hydraulic engineering, geotechnics, waste treatment or PE10\_17 Hydrology, water and soil pollution)**;  
or
  - **documented two-year experience (including non-continuous periods) as a research fellow in water engineering-related topics (ERC Domain: PE8\_3 Civil engineering, maritime/hydraulic engineering, geotechnics, waste treatment o PE10\_17 Hydrology, water and soil pollution)**;
- c) **italian citizenship** (Italians who are not citizens of the Republic of Italy have the same rights as Italian nationals), or citizenship of an EU Member State.  
Following the implementation of Art. 7 of Law 97/2013, family members of citizens of an EU Member State who do not have citizenship of an EU Member State, but do have the right of residence, or the permanent right of residence; and third-country nationals with a long-term EU permit of stay, with refugee status, or with subsidiary protection status, may also apply for the selection procedure;
- d) **full political rights**;
- e) **physically suitable for the position**;

#### **Non-Italian nationals are required to:**

- have full civil and political rights in their country of origin;
- fulfil the same requirements as Italian nationals, with the exception of the possession of Italian citizenship;
- have a good knowledge of the Italian language.

Those who have been excluded from the exercise of active electoral rights, as well as those who have been dismissed or excluded from employment with a public administration due to persistent inadequate performance, pursuant to Article 2, paragraph 7 of D.P.R. (Presidential Decree) no. 487/1994, in accordance with sectoral regulations, or removed for the same reasons or for disciplinary reasons pursuant to legal or contractual regulations in force, or declared disqualified for having obtained the appointment or employment by producing false documents or documents affected by irremediable nullity, as well as those who have been convicted of offences constituting an impediment to employment in a public administration, are not eligible for selection.

#### **Application form**

The application form and appendices for this selection announcement **must be submitted online** with the Pica platform at: <https://pica.cineca.it/unipd/tipologia/pta>.

To apply online, candidates must have a valid email address so that they can register with the system. They must also provide all of the information needed to complete the application and attach the required documents in electronic form.

The system allows the application to be saved in draft form until the submission deadline. The online application procedure and submission must be completed by **2 pm of the 15<sup>th</sup> day from the day of publication, when the selection announcement closes.**

The system will certify the date that the online application form is submitted by emailing candidates an automatic receipt. Once the submission deadline has expired, the system will shut down access and applications can no longer be sent.

If necessary, a submitted application form can be withdrawn and another one submitted **before the application deadline (2:00 p.m. of the fifteenth day).**

Each application will be given an identification number which must be included in any correspondence, along with the selection announcement code stated in the online procedure. Candidates must complete each and every part of the application form in accordance with the online instructions. In case of access through SPID, no signature will be required when submitting the application. In case of accessing the system by another mode, the application is to be completed as follows:

- with a digital signature using a smart card, USB token or remote signature that enables the user to sign documents with signature software. Alternatively, a web portal may be used to provide a certified remote signature. Candidates with a smart card or USB token for digital signing can check for compatibility with the server's digital-signing system. If compatible, the user may sign the application on the server;
- candidates who do not have compatible digital-signing devices and users of remote digital signatures without web portal access for signing documents will have to save a system-generated pdf file on their computer. After which, they must not edit the file and e-sign it in CAdES format. A file with a p7m extension will be generated and uploaded into the system. If the file is edited before the e-signature is applied, the system will be unable to verify whether the content of this document matches the original. If this occurs, the application will be rejected;
- If none of the aforementioned options are available:

print and hand-sign the application form, then upload **a scanned copy along with a scanned form of identification. Candidates not providing identification may be excluded from the selection procedure.**

The system may be momentarily offline for technical reasons.

Non-Italian candidates are to submit their application form as per the methods and deadlines stated in this application procedure.

Documents must be in a static, non-editable format and must not contain executable codes or macro-instructions. PDF is the preferred format. Documents must not exceed 30 MB.

The University of Padua is not liable for undelivered correspondence should candidates not provide a complete address, or when late or no notification is provided should the address on the application form change. Nor is it liable for problems caused by third parties, misfortune or force majeure.

For additional information or queries about the application procedure, please contact the Technical and Administrative Personnel office on +39 049 827 3155 - 3183 between 9 am and 1 pm.

For technical problems only, contact the following link at home page PICA CINECA [supporto](#).

Candidates must state under their own responsibility their surname and first name, their date and place of birth, their permanent address, any telephone number, any criminal convictions and pending criminal procedures, that they enjoy full political rights, a detailed statement they meet the aforementioned requirements, and the exact contact address for any correspondence.

Candidates with no Italian citizenship, must declare to have an adequate knowledge of the Italian language.

Pursuant to Article 16 of Legge (Law) no. 68/1999 and Article 20 of Legge (Law) no. 104/1992, applicants must make an explicit request concerning the assistance they require and the possible need for additional time to complete the tests. To this end, candidates must enclose with their application to participate in the selection procedure a suitable certification issued by the appropriate Public Medical Board, to enable the Administration to prepare in good time the means and tools needed to ensure regular participation in the selection procedure.

Pursuant to Legge (Law) no. 170/2010, as amended and supplemented, candidates with specific learning disorders (SLD) may ask the Committee to have the written test replaced by an interview, or to make use of any technical aids to compensate for reading, writing and calculation difficulties, in order to take the aforementioned tests, as well as to make use of additional time not exceeding 50% of the time allocated for the test.

The request must be prepared following the instructions available in the online application procedure.

The adoption of the above measures will be determined at the sole discretion of the Selection Committee, based on the documentation provided by the candidate in the application.

Candidates are admitted to the selection procedure conditionally. Should any of the requirements not be met, candidates may be excluded from the selection procedure at any moment, even after they have taken the tests.

## Selection

Candidates are selected by examinations.

A total of 60 points are awarded for examinations. They are divided as follows:

- 30 points for the written test;
- 30 points for the oral examination.

## Examinations

Examinations will comprise a written test and an oral examination.

- the **written test** will consist of open-ended questions, and may focus on the following topics:
  - special structures in urban drainage systems;
  - guidelines (procedures and methods) for the assessment, analysis, classification and management of risk, the assessment of reliability and safety and the monitoring of existing structures (bridges, underpasses, pumping stations, combined sewer overflows): hydraulic aspects;
  - laboratory and field measurement of parameters such as level, speed, pressure, flow rate, conductivity, density, volumetric water content in the soil;
- the **oral examination** may focus on the following topics:
  - water drainage systems and wastewater disposal in urban areas;
  - water sampling systems: techniques for monitoring the water quality of rivers and canals;
  - hydraulic analysis of pressurized water networks and open-channel systems (EpaNET, SWMM, InfoWorks ICM, HEC-RAS, FLOW-3D) and data analysis, processing, and programming (Excel, AutoCAD, MATLAB or Python, ArcGIS or QGIS).

Evaluation of proficiency in document preparation and presentation software (Microsoft Word, PowerPoint, LaTeX or Overleaf).

Evaluation of English language proficiency (target level: B2).

The examinations pass mark is 21/30 (equivalent to 7/10).

**Examinations' calendar and locations** will be notified on the University of Padova's Official Register (<https://protocollo.unipd.it/albo/viewer>) and on the University of Padova website at the following link: <https://www.unipd.it/selezione-2025S66> starting from 2:00 p.m. on 23<sup>rd</sup> January 2026.

**Publication of this calendar is to be considered as an official notification.**

Candidates who are unable to comply with the aforementioned schedule due to pregnancy or breastfeeding will be entitled to participate in the examinations, also by holding asynchronous tests and, in any case, appropriate spaces will be made available to allow for breastfeeding.

Wherever possible, the candidates concerned will promptly notify the Selection procedure manager, so that the Administration can plan in good time how and when to ensure regular participation in the examinations.

Candidates who have not received an exclusion communication must come on the date and at the time communicated. No further notice will be given.

Candidates must show a valid ID document before being admitted to the examinations.

Any candidates not coming to the examinations will be deemed to have waivered their place, regardless of the reason.

Only those candidates who pass the written test will be admitted to the oral examinations.

The list of candidates admitted to the oral examinations will be published, with their scores for the written test, on the noticeboard of the Department of Civil, Environmental and Architectural Engineering – ICEA, Via Marzolo, n. 9, Padua, and posted on the University of Padua website at <https://www.unipd.it/selezione-2025S66>.

All Commission sessions during the oral examination are public.

At the end of each oral examination session, the Commission will draw up a list of the candidates assessed with a score for those who have passed the examination. This list will be posted on the noticeboard of the Department of Civil, Environmental and Architectural Engineering – ICEA, Via Marzolo, n. 9, Padua, and posted on the University of Padua website at <https://www.unipd.it/selezione-2025S66>.

Candidates will be able to access the list by using a personal password provided to all selection participants.

### **Overall ranking**

The final score is calculated by adding up the average score obtained between the written and the oral examination.

The categories of citizens who have a preference, merit being equal, are:

- a) recipients of military and civil valour medals, if they have left the service;
- b) amputees and invalids for service in the public and private sectors;
- c) orphans of the fallen and children of the mutilated, disabled and permanently incapacitated for work due to service in the public and private sectors, including the children of health professionals, social workers and socio-medical workers who died as a result of the Cov-2 Sars infection contracted when exercising their activity;
- d) those who have performed meritorious service in any capacity whatsoever for not less than one year in the administration holding the competition, where they have no other preferential qualification by reason of their service;
- e) higher number of dependent children;
- f) invalids and civilian amputees who do not fall under (b);
- g) military volunteers of the Armed Forces who were not dishonourably discharged at the end of the regular or extended period of military service

- h) athletes who have sporting employment relationships with military sports groups and the civil corps of the State;
- i) people who have successfully completed the further improvement period at the process office pursuant to Article 50, paragraph 1-quater, of decreto-legge (Decree-Law) no. 90 of 24 June 2014, converted, with amendments, by legge (Law) no. 114 of 11 August 2014;
- l) people who have successfully completed the traineeship at the judicial offices pursuant to Article 37, paragraph 11, of decreto-legge (Decree-Law) no. 98 of 6 July 2011, converted, with amendments, by legge (Law) no. 111 of 15 July 2011, while not being part of the process office, pursuant to Article 50, paragraph 1-quinques, of decreto-legge (Decree-Law) no. 90 of 24 June 2014, converted, with amendments, by legge (Law) no. 114 of 11 August 2014;
- m) people who have successfully completed the internship at judicial offices pursuant to Article 73, paragraph 14, of decreto-legge (Decree-Law) no. 69 of 21 June 2013, converted, with amendments, by legge (Law) no. 98 of 9 August 2013;
- n) people who hold or have held collaboration assignments given by ANPAL Servizi S.p.A., in implementation of the provisions of Article 12, paragraph 3, of decreto-legge (Decree-Law) no. 4 of 28 January 2019, converted, with amendments, by legge (Law) no. 26 of 28 March 2019;
- o) younger age.

Pursuant to Article 3, paragraph 4, of DPR (Presidential Decree) no. 487/1994, as amended by DPR (Presidential Decree) no. 82/2023, which states that notices of competition shall take into account the gender representativeness referred to in Article 6, as at 31.12.2024, the percentage of representativeness of the male gender is 45.2%, while that of the female gender is 54.8%, and therefore the gender differential is 9.6%, (lower than 30%).

The overall ranking will be published in the University of Padua Official Register. Any appeals may be filed the day after the ranking is published.

The overall ranking is immediately effective.

The winner is entitled to the gross annual salary for the D category, financial position D3, as per the University section of the current National Collective Bargaining Agreement (C.C.N.L. *Comparto "Istruzione e Ricerca"*), as well as to an additional quota as specified in the "University Regulations for Recruiting and Regulating 'Fixed-term Research Technologists', in accordance with Art. 24-bis of Law no. 240 of 30 December 2010." The salary will be paid into a bank or post-office account only.

The administration may decide not to draw up the agreement should there cease to be the need, opportunity or resources to proceed.

The ranking is valid for two years from its publication date and may be used to recruit additional fixed-term technologists with the same profile and level. All other aspects of employment will depend on the University's specific needs.

Anything not stated above is covered by the "University Regulations for Recruiting and Regulating 'Fixed-term Research Technologists', in accordance with Art. 24-bis of Law no. 240 of 30 December 2010", available at: <http://www.unipd.it> (see "*Statuto e Regolamenti*").

Pursuant to Law no. 241 of 7 August 1990, the selection procedure Manager is Dr. Cristian Poletti - *Ufficio personale tecnico amministrativo*, Riviera Tito Livio, 6, Padua, Italy.

The Technical-Administrative Staff Office (*Ufficio personale tecnico amministrativo*) is open to the public with the following schedule:

- from Monday to Friday from 10:00 a.m. to 1 p.m.,
- in addition, on Tuesdays and Thursdays from 3:00 p.m. to 4:30 p.m as well.

Office tel. 049 827 3159 – 3155

Office e-mail: [reclutamento.pta@unipd.it](mailto:reclutamento.pta@unipd.it)

NB: This selection announcement has been translated into English for publication purposes only. The Italian version is valid for all legal purposes and for the resolution of any disputes.

The Director-General

Alberto Scuttari

*digital signature (ex Legislative Decree  
82/2005)*

Il Responsabile del procedimento amministrativo  Dott. Cristian Poletti	Il Dirigente dell'Area  Dott. Tommaso Meacci
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