

SELECTION ANNOUNCEMENT No. 2023S19

BY QUALIFICATIONS AND EXAMINATIONS TO RECRUIT NO. 1 LEVEL I RESEARCH TECHNOLOGIST (FINANCIAL POSITION “EP1”) ON A FULL-TIME FIXED-TERM CONTRACT, FOR 24 MONTHS PURSUANT TO ART. 24BIS OF LAW NO. 240 OF 30.12.2010, AND TO THE NATIONAL COLLECTIVE BARGAINING AGREEMENT OF 19.04.2018, AT DEPARTMENT OF PHYSICS AND ASTRONOMY “GALILEO GALILEI” – DFA

By implementing Art. 24bis of Law no. 240 of 30.12.2010 and the National Collective Bargaining Agreement of 19.04.2018, the University of Padova plans to recruit Level I research technologist (financial position “EP1”) by qualifications and examinations on a full-time fixed-term contract (36 hours per week), for 24 months, at the Department of Physics and Astronomy “Galileo Galilei” - DFA, to provide technical-administrative support for the realization and operation of the CoMET (*Coating Materials for Einstein Telescope*) laboratory, financed as part of the PNRR ETIC project.

The primary purpose of the laboratory is to produce high-quality thin film samples for the development of optical coatings for gravitational wave detector mirrors.

The technologist will then be called to carry out the following **activities**, which will require travels between Rovigo, Padova, and Legnaro (PD):

- participation in the design of the laboratory (definition of environmental requirements, equipment, and space utilization), including interfacing with designers and companies carrying out the work
- collaboration in defining equipment requirements (for example, but not limited to, ellipsometer, AFM, XRD, SEM sample preparation) and management of tenders and contracts (market research, definition of specifications)
- installation, testing, operation, and maintenance of equipment
- collaboration and support for research activities carried out within the laboratory.

The aforementioned activities require the following **professional skills, knowledge and competences**:

- excellent knowledge, also through experience, of:
 - techniques for physical vapor deposition of thin films
 - physicochemical techniques for characterization of optical thin films
 - management of laboratories and facilities
- customer assistance for both internal (teachers, researchers, and students) and external users
- team working, also at international level.
- knowledge of the English language (level B2) with particular reference to the technical language of the field
- basic computer skills (Microsoft Office suite)
- willingness to travel between Rovigo, Padova and Legnaro (PD).

Admission requirements

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

- **academic qualifications:**

- a second-cycle degree (*Laurea Magistrale*) (ex D.M. 270/2004), or a second-cycle degree (*Laurea Specialistica*) (ex D.M. 509/1999) recognised as the equivalent by D.I. 09.07.2009, or a degree (*Diploma di Laurea v.o.*) (prior to D.M. 509/1999) recognised as the equivalent by D.I. 09.07.2009.

Candidates **holding a foreign degree** may take part in the selection only after completing a degree-equivalency process pursuant to Art. 38, paragraph 3 of Legislative Decree DL 165/2001. Candidates are conditionally admitted to the selection procedure if the equivalency process is underway, but no final decision has been reached. They must have had their degree recognised as the equivalent of an Italian degree by the time they are recruited.

The degree-equivalency process must be started before the selection-announcement deadline, otherwise the candidate will be excluded from the selection procedure. Candidates must inform the procedure manager that they have applied for degree equivalency.

Pursuant to decreto-legge (decree-law) no. 228 of 30 December 2021, **the Public Function Department will conclude the recognition procedure only with regard to the successful candidates, who have the obligation, under penalty of forfeiture, to notify the Italian Ministry for Universities and Research (MUR) of the publication of the ranking list within 15 days.**

The degree-equivalency application form is available at:

<http://www.funzionepubblica.gov.it/strumenti-e-controlli/modulistica>;

- **specific professional qualification pertinent to the research:**
 - **PhD in physics related to at least one of the ERC sectors PE3_1, PE3_9, PE3_13 o PE5_4;**
- 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 implementation of Art. 7 of Law 97/2013, the following may also apply for the selection procedure: family of citizens from 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;
- candidates with full political rights;
- candidates who are physically suitable for the position;
- candidates who have completed their military service.

Non-Italian nationals are required to:

- have full civil and political rights in their country of origin;
- fulfil the same requirements as Italian nationals, but do not need Italian citizenship;
- have a good knowledge of Italian.

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 p.m. of the 15th day, 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. 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 Padova 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 3159 - 3494 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, their military-service status, a detailed statement they meet the aforementioned requirements, and the exact contact address for any correspondence.

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 qualifications and examinations.

A total of 90 points are awarded for qualifications and examinations. They are divided as follows:

- 30 points for qualifications;
- 60 points for examinations, they are divided as follows:
 - 30 points for the written test;
 - 30 points for the oral examination.

Qualifications

The following qualifications, as inferred from the CV and any other documentation deemed appropriate submitted by applicants, will be evaluated:

1) experience working on physical vapor deposition (PVD) facilities (the candidate should specify the facilities and techniques used)	max 8 points
2) experience using physicochemical analysis techniques applied to the study of thin films (the candidate should specify the techniques used)	max 8 points
3) experience of service in multi-user laboratories (the candidate should specify in which laboratories and in what role)	max 6 points
4) ownership of publications in scientific journals related to the topics of modeling, fabrication and/or characterization of thin films	max 3 points
5) relevance of doctoral dissertation, of master's degree and/or training or specialization courses to the topics of modeling, fabrication and/or characterization of thin films	max 4 points
6) ownership of patents pertaining to the topics of modeling, fabrication and/or characterization of thin films	max 1 points

The score awarded for qualifications will be out of 30.

EU candidates must provide all of the statuses, information and qualities that they deem useful for the assessment of their qualifications in a statutory declaration, as per Art. 46 and 47 of Presidential Decree DPR no. 445/2000. Non-EU candidates are not allowed to use a statutory declaration, as per Art. 3 of Presidential Decree DPR no. 445/2000.

Certificates issued by the European Union or Italy's Public Administration must not be submitted.

Publications must be attached to the application and must conform to the original.

Only publications or texts accepted for publication, in accordance with current regulations, as well as essays included in collective works and articles published in journals on paper or in digital format will be assessed, with the exclusion of internal notes or departmental reports. Doctoral theses or equivalent qualifications are taken into account even in the absence of the aforementioned conditions.

In the case of publications published abroad, the following details should be provided if possible: date, place of publication or, alternatively, the ISBN code or equivalent.

In the case of publications published in Italy before 2 September 2006, the obligations must be fulfilled in accordance with the forms provided for by article 1 of Decreto luogotenenziale (Legislative Decree of the King's Lieutenant) no. 660 of 31 August 1945. From 2 September 2006, the obligations must be fulfilled in accordance with the forms provided for by Legge (Law) no. 106 of 15 April 2004 and by the relevant regulation issued by D.P.R. (Presidential Decree) no. 252 of 3 May 2006, by the date on which the Call for Applications for Selection expires.

Publications and any documentation in a foreign language must be accompanied by a translation in Italian, certified as conforming to the original (foreign) text, prepared by the competent diplomatic or consular Representation or by an official translator or, where permitted, prepared by the candidates themselves with a statement that it conforms to the original text by means of a declaration in lieu of an affidavit which, pursuant to article 47 of D.P.R. (Presidential Decree) no. 445/2000, certifies the conformity of the translated text to the original text. Publications written in a foreign language may, however, be submitted in the original language (without the need for an accompanying translation) if this language is one of the following: French, English, German or Spanish.

Publications uploaded via the procedure may not exceed a total of 30 MB.

The evaluation of the qualifications will be carried out before proceeding to the correction of the written test. Candidates will be notified of their qualification-assessment result before they take the oral examination.

The assessment of qualifications will be carried out before the written test is corrected, and will be made known to the candidates before the practice test is held.

Examinations

Examinations will comprise a written test and an oral examination.

The written test will focus on the following topics:

- techniques for physical deposition of thin films
- physicochemical techniques for characterization of optical thin films.

The oral examination will focus on the following topics:

- techniques for physical vapor deposition of thin films
- physicochemical techniques for characterization of optical thin films
- experience in managing laboratories and facilities.

The possession of computer knowledge (Microsoft Office suite) and the knowledge of the English language (European Framework of Reference for Languages: level "B2") will be tested during the oral examination.

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

Examinations will take place at the following times and venues. No further notice will be given:

- **the written test:** on **15th May 2023, at 9:30 p.m.**, at the “Aula P036”, building “Paolotti” Via Belzoni n. 7, Padova;
- **the oral examination:** on **17th May 2023, at 15:00 p.m.** at the Department of Physics and Astronomy “Galileo Galilei” - DFA, “Aula R”, Via Marzolo n. 8, Padova.

Publication of this calendar is considered to be notification.

Approved candidates 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 waived their place, regardless of the reason.

The list of candidates admitted to oral examinations will be published with their scores for the written test on the noticeboard of Department of Physics and Astronomy “Galileo Galilei” - DFA, Via Marzolo 8, Padova and posted on the University of Padova website at <https://www.unipd.it/selezione-2023S19>.

All Commission sessions during the oral examination are public. At the end of each oral examination, 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 Department of Physics and Astronomy “Galileo Galilei”- DFA, Via Marzolo 8, Padova, and on the University of Padova website at <https://www.unipd.it/selezione-2023S19>.

Candidates can access the list with a personal password provided to all selection participants.

Overall ranking

The final score is calculated by adding up the score for the written test, the oral examination and the score for qualifications assessment.

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

The overall ranking is effective immediately.

The winner is entitled to the gross annual salary for the EP category, financial position EP1, as per the University section of the current National Collective Bargaining Agreement (CCNL), 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 three 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/regolamenti-personale-tecnico-amministrativo-dirigenti> .

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

The Technical-Administrative Staff office (*Ufficio personale tecnico amministrativo*) is open to the public at the following times:

From Monday to Friday from 10 am to 1 pm and on Tuesday and Thursday from 3 pm to 4.30 pm.

Tel. 049 827 3155 - 3159 - 3494

e-mail: 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.

Padua

The Director-General

Alberto Scuttari

digital signature (ex Legislative Decree 82/2005)

Selection-procedure Manager Cristian Poletti	Department Manager Tommaso Meacci
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