

The University of Pisa announces public selection procedures for the award of 2 postdoctoral positions in accordance with Article 22 bis of Law 240/2010 as set out in Annex A) to this call, in which the information sheets indicating the reference structure, the specific responsibility within the position and the functions to be performed, as well as the scientific disciplinary area and information on the interview, are provided.

Deadline for submitting the application: 22nd May 2026 at 1:00 pm

Duration of each postdoctoral positions: 12 months

Annual administrative gross amount of each postdoctoral positions: € 45.000,00

Admission requirements:

- A PhD or medical specialisation degree. Candidates who fail to meet this requirement will lose the right to be awarded the postdoctoral position.

Documents to be attached:

The application must include:

a) A comprehensive scientific-professional curriculum containing all the necessary elements for assessing prior activities and any relevant work experiences, in connection with the content of the position under consideration (specifically indicating: date/duration, place of completion, etc.);

b) For individuals with a foreign doctoral degree, an equivalence decree or determination; if the candidate already holds one, a copy of the foreign doctoral degree or a suitable certification issued by the foreign institution, confirming the components, duration, and activities of the doctoral programme undertaken to achieve the doctoral degree. Documents issued in a foreign language other than French, English, German and Spanish, must be accompanied by a certified Italian translation that conforms with the original text, drawn up by the competent diplomatic or consular representation, or by an official translator.

c) Additional documents that the candidate deems useful for the selection purposes;

d) Publications that the candidate considers relevant for the selection, considering the maximum number set for the selection, as indicated in Annex A), with a list signed by the candidate;

e) Photocopies of the tax code and a current valid identification document.

Candidates must submit the publications they intend to present exclusively in PDF format through the dedicated section of the online procedure.

Each publication shall not exceed 30 megabytes.

Publications not enclosed with the application will not be considered by the Selection Board. Lists with links to texts are not allowed as a replacement for publications.

Applications

Applications must be submitted online only, using the following link: <https://pica.cineca.it/unipi/> or shall be invalid. An e-mail inbox is required to login and complete the application.

Candidates can login into PICA platform using the digital identifier SPID (Sistema Pubblico d'Identità Digitale - Public Digital Identity System), selecting the University of Pisa among the available Institutions.

If candidates do not have SPID, they can request it in accordance with the procedures set forth on the website www.spid.gov.it.

Candidates can also login with the credentials issued directly by PICA platform (please note: in order to apply online, the system requires an e-mail inbox for self-registration), with their LOGINMIUR, REPRIS or REFEREES account.

Applicants must provide all the required data and upload all documents in PDF format.

The system allows saving an application draft within the application deadline, recording the online application's date and sending a receipt with an automatic reply. After the deadline, the system will not allow login or application submission.

Each application will be assigned a unique identification number to be referred to in all subsequent communications, along with the selection code provided by the application form.

Under penalty of exclusion, the application shall be valid only if including all the required data, the copy of a valid ID and:

- if submitted by accessing the system without the digital identifier SPID, the applicant's signature is mandatory;
- If submitted by accessing the system with digital identifier SPID, the application will be automatically processed by the system and the applicant's signature is not required.

Applicants undertake to promptly communicate in writing any variations of what declared in the application form.

The communication must be edited in PDF format, signed and forwarded to the Rector of the University of Pisa by the Italian certified e-mail system address (P.E.C. Posta Elettronica Certificata): protocollo@pec.unipi.it or emailed to concorsi_incarichi@unipi.it , within the application's submission deadline.

An applicant's valid identification document must be attached.

For further information on application submission, please refer to concorsi_incarichi@unipi.it .

For technical problems support only, please click on the bottom link available at <https://pica.cineca.it/unipi>.

Selection procedure:

For the selection under Annex A) the Director of the Department appoints a Selection Board consisting of the head of the position and two other members.

Candidates are assessed comparatively on the basis of the following elements:

- a) Relevance and significance of the activities previously carried out, as well as any work experience, in relation to the contents of the position to the selection, in addition to documented qualifications (such as, for example, degree grade, postgraduate diplomas, any contracts, scholarships, conference presentations, and other documented qualifications);
- b) Quality, originality and innovativeness of the attached publications, as well as their relevance to the position under consideration;
- c) An interview aimed at assessing the knowledge of the basic subjects of the scientific disciplinary sector to which the subject of the position belongs, the suitability for carrying out the activity under the position, as well as the evaluation of knowledge of the English language and/or other languages relevant to the research (as reported in Annex A). During the interview, the Selection Board also assesses the knowledge of the Italian language for foreign candidates.

The Selection Board has 100 points available for the comparative evaluation of the candidates: 60 points can be allocated for the criteria mentioned above under a) and b), and 40 points for the interview.

The Selection Board may stipulate a minimum score below which eligibility cannot be awarded.

Candidates are summoned for the interview on the day and time specified in the Annex A) for the procedure.

Failure to attend an interview by a candidate is considered an explicit indication of their intention to withdraw from the selection process.

Applicants for this selection are required to consult the University website at <https://bandi.unipi.it/public/Bandi?type=IPDOC> (on the selection procedure page) during the two days preceding the date set for the interview.

On the University website (<https://bandi.unipi.it/public/Bandi?type=IPDOC>), in the section dedicated to the procedure, the following will be published:

- Assessment scores for criteria a) and b);
- The list of candidates admitted to the interview;
- Practical instructions for carrying out the interview and/or any details should the interview be rescheduled;
- The procedure approval decree and the merit ranking that takes into account the scores achieved by the candidates.

Please note that the English version is provided for courtesy and information purposes only. It cannot be legally used in the event of a dispute or a claim arising from the interpretation of this translation and concerning the contents, a possible uncertainty contradiction, or discrepancy. Should this occur, the Italian version of the call should prevail as the sole legally binding text. For the full Italian version see: <https://bandi.unipi.it/public/Bandi?type=IPDOC> (on the selection procedure page).

Selection code post-doc_sdt2026_2_1

Department of Earth Science

**GSD 04/GEOS-04 Geophysics
SSD GEOS-04/A Solid Earth Geophysics**

Project FARIA - CUP I53C25003730006

Supervisor of the appointee's activities:
Prof.ssa Laura Gulia

Title of the activities covered by the appointment:

Development of physics-based models to identify the physical mechanisms influencing frequency-magnitude distributions

Activities to be carried out (covered by the appointment):

The research will be carried out within Work Package 2, Simulation Modeling, of the EU FARIA project, in collaboration with PD Dr. Antonio Pio Rinaldi (Swiss Seismological Service, ETH Zurich) and Dr. Massimo Nespoli (University of Bologna). The main objective is to identify and understand which physical mechanisms may influence the frequency-magnitude distribution (b-value) in seismic sequences. The candidate will develop and validate models aimed to reproduce the viscoelastic and poroelastic response of a layered medium under tectonic loading and the potential propagation of fluids and pressure. The model will then be tested against well-documented natural seismic sequences to evaluate its ability to reproduce the spatiotemporal migration of seismicity, as well as the associated b-value evolution.

Specific responsibility relating to the activities of the appointment and functions to be performed:

The successful candidate will be responsible for developing physical models within WP2, Data Analytics of the EU FARIA project. She/he will therefore be responsible for the development, application, and validation of numerical models aimed at analyzing the physical mechanisms that influence the b-value in seismic sequences. Furthermore, by applying the developed and tested models, she/he will produce seismological datasets to verify their predictive capability in terms of the spatiotemporal distribution of seismicity and the b-value. The role involves close collaboration with project partners, documentation of results, and their dissemination through technical reports and scientific publications. She/he will collaborate with the other WPs to validate the developed methods and contribute to the preparation of deliverables, scientific publications, and educational and outreach activities.

Maximum number of publications that candidates may submit, including the doctoral thesis, if submitted: 5

Language skills:

English language

Date, time and mode of the interview:

18th June 2026 at 11.00 am in telematic mode

The interview will be conducted in Italian

Selection code post-doc_sdt2026_2_2

Department of Earth Science

**GSD 04/GEOS-04 Geophysics
SSD GEOS-04/A Solid Earth Geophysics**

Project FARIA - CUP I53C25003730006

Supervisor of the appointee's activities:
Prof.ssa Laura Gulia

Title of the activities covered by the appointment:

Create experimental acoustic emission (AE) catalogues for sensitivity analysis, workflow verification, and exploration of physical processes

Activities to be carried out (covered by the appointment):

The research will be carried out within Work Package 3, Lab, of the EU FARIA project, in collaboration with Dr. Paul Selvadurai (Swiss Seismological Service, ETH Zurich) and Dr. Claudio Madonna (ETH Zurich). The candidate will conduct laboratory tests on rock samples aimed at developing catalogs for statistical analysis at the LabQuake triaxial cell at ETH. The successful candidate will run triaxial rock-deformation tests under varied loading and environmental conditions, monitored with AE, DFOS, and fluid/pressure sensors, design controlled experiments on rock and analogue samples, including laser-engineered surface roughness to probe fault hydro-seismo-mechanics. AE catalogs for extracting spatiotemporal b-value signals will be created and then compared with modelling/synthetic data, share data/code in open repositories, and contribute to publications.

Specific responsibility relating to the activities of the appointment and functions to be performed:

The successful candidate will be responsible for designing and conducting laboratory experiments on rock samples and analogous materials within Work Package 3 (Lab) of the EU FARIA project. Specifically, she/he will conduct triaxial tests under controlled conditions, managing advanced monitoring systems (AE, DFOS, and pressure/flow sensors) and ensuring data collection and quality. She/he will develop catalogs of AE events for statistical analysis of the b-value, comparing them with modeling and synthetic data and will participate in scientific collaboration with project partners, in the drafting of reports and publications. She/he will also contribute to educational and outreach activities, working with appropriate autonomy and in coordination with the scientific leaders.

Maximum number of publications that candidates may submit, including the doctoral thesis, if submitted: 5

Language skills:
English language

Date, time and mode of the interview:

19th June 2026 at 10.30 am in telematic mode

The interview will be conducted in Italian