



Excerpt from the Rector's decree n. 1548/2024

**Call for the selection of n. 6 Senior Research Fellows**  
(Under the Italian Law 240/2010 article 24, subparagraph 3, point b)

The University of Pisa announces a call for 6 Senior Fixed-Term Research Fellows for the Departments and the Academic Fields or Academic Disciplines as listed in Annex A.

The fixed-term contract is to carry out research activities, teaching, integrative teaching activities and services for students, for a 350 hours commitment, on a full-time basis.

The Senior Research Fellow is required to perform lectures for a minimum of 48 up to a maximum of 96 hours per academic year, allocated as an institutional assignment for Bachelor's and Master's degree programs, Specialization Schools and PhD programs.

Contract duration: 3 years

**Deadline for application: 29<sup>th</sup> of August 2024, 1 p.m.**

**Admission requirements:**

PhD or equivalent academic qualification awarded in Italy or abroad and recognized as eligible for admission.

As for a qualification awarded abroad, equivalency or comparability documentation must be provided as stated under:

D.Lgs.165/2001, article 38:

[http://www.funzionepubblica.gov.it/sites/funzionepubblica.gov.it/files/modulo\\_equivalenza\\_Titoli\\_Accademici.pdf](http://www.funzionepubblica.gov.it/sites/funzionepubblica.gov.it/files/modulo_equivalenza_Titoli_Accademici.pdf)

Or under:

D.P.R. 382/1980, article 74:

<https://www.unipi.it/index.php/titoli-accademici-esteri>

As for an equivalent or comparable academic qualification, the candidate shall be admitted within the application's deadline and shall provide the qualification equivalency or comparability before the signing of the contract.

**Candidates are required to declare the following:**

1. That they enjoy full rights of citizenship in their home State.
2. That they have not been convicted or found guilty of any criminal offence; in the event of any conviction, it is mandatory to provide the details of the relevant judgments and any pending criminal proceedings.
3. That they have not been dismissed or dispensed from employment by a Public Administration office for persistent unsatisfactory performance; that they have not been declared disqualified from State employment, in compliance with article 127, first paragraph, letter d) of the Consolidation Act of Provisions concerning State civil servants approved by Presidential Decree no. 3 of 10 January 1957.

4. That they are registered on the electoral roll.
5. That they have knowledge of the Italian language.

**Required qualifications:**

to have been employed as a Fixed-Term Research Fellow for a three- year period already completed by the application's deadline; (Under the Italian Law 240/2010, article 24, subparagraph 3, point b)

or

to be a researcher, a scholar or a scientist holding the Italian National Certification for Full or Associate Professor (Under the Italian Law 240/2010 article 16);

or

to hold a Postgraduate School qualification for the relevant medical fields;

or

to have had at least a three-year period of contracts, even when not consecutive and already completed by the application's deadline, performed with:

- research grants (under the Italian Law 449/97, art 51, subparagraph 6 or the Italian Law 240/2010 article 22 or comparable academic contracts abroad)
- post PhD grants (under the Italian Law 398/1989, article 4 or comparable academic contracts abroad)
- contracts concluded in compliance with the Law no. 230 of 4 November 2005, art. 1, paragraph 14.

Please note: the above-mentioned three-year period could aggregate: Fixed-Term Research Fellowship, post PhD research grants and fellowship in foreign Universities (under DM 662/2016).

**No admission to this selection for:**

- Professors or Research Fellows with permanent position at the university, currently employed or currently retired.
- Fixed-term Research Fellowship or Post PhD research grants at the University of Pisa or other Italian universities, either public, private or online, and other public institutions (Under the Italian Law n. 240/2010, articles 22 and 24) for a period that, totaled over this contract, would exceed 12 years altogether, even when not consecutive. As for the duration of the working period mentioned above, parental leave or medical leave, are excluded (under the existing legislation).

**Applications:**

Applications are to be submitted online only, using the following link: <https://pica.cineca.it/unipi/> or shall be invalid. It is necessary to have an email address to login and complete the application.

Applicants should fill in all the required data and upload all documents in PDF format.

The system allows saving a draft of the application within the application deadline. The system will register the online application date and send a receipt with an automatic e-mail reply. After deadline, the system will not allow login nor application submission.

In order to be valid, application shall include all the required data, applicant's signature and a valid identification document.

Each application will be assigned a tracking number to be cited in all subsequent communications, together with the selection code provided by the application form.

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

The communication shall be edited in PDF format, signed and forwarded to the University of Pisa Rector via the Italian certified e-mail system address (P.E.C. Posta Elettronica Certificata): protocollo@pec.unipi.it or via e-mail at: concorsi@adm.unipi.it. Applicant's valid identification document shall be annexed.

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

For any IT malfunctioning please refer to unipi@cineca.it.

Applications shall be completed with the following annexes:

1. A self-attested Curriculum in Italian (mandatory, under penalty of exclusion) and in English (optional) of the personal didactics, teaching and scientific activities, dated and signed;

**The non-submission of the CV in Italian will result in exclusion from the procedure.**

2. The Publications applicant considers eligible for this selection with the corresponding list dated and signed;

3. A complete list of all Publications, dated and signed;

4. A copy of the tax code (if applicable) and identification card/passport, dated and signed;

All publications should not exceed 30 megabyte and are to be submitted in PDF format only, using the specific section of the application form.

#### **Selection procedure:**

A Rector's Decree will appoint the Selection Committee, consisting of three members.

The selection will be made according to a preliminary assessment of the candidates with an accurate and evidenced analytic evaluation of the Curriculum, of qualifications and scientific results, including PhD thesis.

After the preliminary assessment, the candidates that have comparatively proven to be the most meritorious, will be admitted to an open interview; they will represent between 10 and 20 % of the total and will be not less than six. The interview will concern applicant's qualifications and scientific results. In the event the number of applicants is six or less, all candidates are admitted.

Information about date, time, list of candidates admitted, and the conditions of the assessment interview will be published on the University website at the following link: <https://bandi.unipi.it/public/Bandi?type=RIC> , in the specific section reserved to the selection, 45 days after the deadline for the submission of the applications (with a fifteen days' notice guarantee).

The publication on the University website is to be regarded as convocation notice for the participants to the selection, who must show the day and time indicated; no further communications will be published. The failed attendance to the interview will be considered as a voluntary waiver to the selection.

The discussion of qualifications and publications, even if it takes place in the form of a seminar open to the public, and the possible test to verify the linguistic skills referred to in article 7 of the relevant University

Regulations, will take place in person or, where adequately motivated, remotely or in mixed mode, in compliance with the provisions of Presidential Decree no. 862/2022 of 23 May 2022.

During the discussion of qualifications and publications, an oral test will also be held to ensure adequate knowledge of the foreign language indicated in the announcement.

The Commission will declare the candidate's suitability or otherwise in terms of knowledge of the language.

Please note that the English version is given as a matter of courtesy, for the only purpose of information. 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 shall prevail as the only valid. For full Italian text see: <https://bandi.unipi.it/public/Bandi?type=RIC>

**Selection code A1**

**Department of Philology, Literature and Linguistics**

GSD 10/LATI-01 Latin Language and Literature

**SSD LATI-01/A** Latin Language and Literature

Nr. of positions available: 1

**Focus of research**

The successful candidate will do research on the works written in Latin and their authors, from the origins to Late Antiquity, as well as their textual transmission and their reception in the following ages. The candidate's research will deploy the methodologies of textual criticism, linguistic history, and literary analysis; s/he can also do research on the Latin language and its history or on the history and methodologies concerning the transmission of knowledge of the domains of this scholarly field.

**Scientific productivity**

Publications in peer-reviewed journals at international level; publications in conference proceedings.

**Head office**

Department of Philology, Literature and Linguistics

**Specific teaching activity of the contract**

BA and MPhil degree courses; participation in the doctoral seminars active in the Department.

Candidates may present a maximum number of **15** scientific publications.

Candidates will be required to demonstrate an adequate knowledge of English language.

## **Selection code A2**

### **Department of Physics**

**GSD 02/PHYS-01** Theoretical Physics of Fundamental Interactions, Models, Mathematical Methods and Applications

Nr. of positions available: 1

### **Focus of research**

Research activities in the fields of the academic discipline 02/PHYS-01.

### **Scientific productivity**

Contributions advancing the state of art of research in the field. Full scientific independence, possibly including the supervision of BSc, MSc, and PhD theses. Publication of research in peer-reviewed, international journals. Presentation of research results in national and international conferences.

### **Head office**

Department of Physics.

### **Specific teaching activity of the contract**

Courses on basic physics and specialist courses in experimental physics of fundamental interactions.

Candidates may present a maximum number of **12** scientific publications.

Candidates will be required to demonstrate an adequate knowledge of English language.

In the application, candidates should attach a summary of their previous research.

## **Selection code A3**

### **Department of Civil and Industrial Engineering**

GSD 08/CEAR-03 Infrastructural and Transportation Engineering, Real Estate Appraisal and Investment Valuation

**SSD CEAR-03/A** Roads, Railways and Airports

Nr. of positions available: 1

### **Focus of research**

The research will focus on typical themes of the scientific field, and, in particular, on theories and techniques for design, construction, rehabilitation and maintenance of roads, railways and airports. The research activity will cover analysis, experimental observation and interpretation, even by numerical models, of the mechanical behavior of materials used for construction of embankments, pavement structures and tracks, with particular regard to innovative and recycled materials that can foster the sustainable development and the circular economy, including the study of the related production processes.

### **Scientific productivity**

Scientific activity involves the participation and coordination of national and international research projects as well as contracts founded by public or private bodies, the preparation of scientific papers for publication in international journals and presentation at international conferences.

### **Head office**

Department of Civil and Industrial Engineering

### **Specific teaching activity of the contract**

Teaching in the course “Fundamentals of Road Engineering” within the Bachelor degree in Civil, Environmental and Buildings Engineering; co-teaching, additional teaching and student assistance in the other courses pertaining to SSD CEAR-03/A.

Candidates may present a maximum number of **12** scientific publications.

Candidates will be required to demonstrate an adequate knowledge of English language.

## **Selection code A4**

### **Department of Civil and Industrial Engineering**

GSD 09/ICHI-01 Systems, Methods and Technologies of Chemical and Process Engineering

SSD ICHI-01/C Analysis, Design and Control of Chemical Processes

Nr. of positions available: 1

### **Focus of research**

The research will concern the typical themes of the disciplinary scientific sector and, in particular, theoretical and applicative aspects relating to the design of process control systems, and the optimization and monitoring of industrial processes. In particular, the research activity will concern the analysis, development, and implementation of model-based control systems, the study, and implementation of data-based process modeling methodologies and algorithms, the implementation of algorithms for performance monitoring of control systems, rigorous simulation and process optimization aimed at sustainable development and energy saving.

### **Scientific productivity**

The scientific activity involves the participation and coordination of national and international research projects and contracts financed by public or private bodies, the writing of scientific articles intended for publication in international journals, or presentation at international conferences.

### **Head office**

Department of Civil and Industrial Engineering

### **Specific teaching activity of the contract**

Co-teaching in the teaching of "Process dynamics and control" for the master's degree course in Energy Engineering; co-teaching, supplementary teaching, and assistance to students for the other courses of the SSD ICHI-01/C.

Candidates may present a maximum number of **12** scientific publications.

Candidates will be required to demonstrate an adequate knowledge of English language.



## **Selection code A5**

### **Department of Civil and Industrial Engineering**

GSD 09/IIND-05 Industrial Mechanical Systems Engineering

**SSD IIND-05/A** Industrial Mechanical Systems Engineering

Nr. of positions available: 1

### **Focus of research**

The scientific activity concerns the topics and methodologies related to the SSD IIND-05/A as provided for in the declaration. In particular, in the context of Lean Manufacturing it involves the development of advanced methods for the design and management of mechanical industrial systems with reference to performance optimization. The research activity also concerns active participation in research projects on typical SSD topics.

### **Scientific productivity**

Within the typical topics of the scientific disciplinary sector IIND-05/A “Mechanical industrial systems”, the scientific activity involves the publication of high scientific level papers in international journals with peer review and participation in qualified international conferences.

### **Head office**

Department of Civil and Industrial Engineering

### **Specific teaching activity of the contract**

Teaching activity within the SSD IIND-05/A in the courses belonging to the three-year and master's degree courses in Management Engineering, master's degree in Mechanical Engineering, Vehicle Engineering and in Technology and Production of Paper and Cardboard and three-year professionally oriented course in Techniques for Mechanics and Production with particular reference to the design and management of mechanical industrial systems.

Candidates may present a maximum number of **12** scientific publications.

Candidates will be required to demonstrate an adequate knowledge of English language.

## **Selection code A6**

### **Department of Geosciences**

GSD 04/GEOS-02 Paleontology, Stratigraphic Geology and Sedimentology, Structural Geology and Tectonics

**SSD GEOS-02/B** Stratigraphic Geology and Sedimentology

Nr. of positions available: 1

### **Focus of research**

The candidate will be asked to focus his/her research activity on the geochronological reconstructions of the physical and biological events that occurred during the history of the Earth, the analysis of current and fossil stratigraphic successions, their description, organization and spatial and temporal association, and the interpretation of their genesis. The analysis of the facies and evolution of sedimentary basins; paleoenvironmental, paleoclimatic and paleogeographic reconstruction; the composition, properties, and emplacement of sediments and their diagenetic modifications; the study of recent marine sedimentary environments and their dynamics on the globe. The candidate will participate in geological applications in the environmental field, in scientific education and in geoscience teaching.

### **Scientific productivity**

Publication of scientific papers in high-rank international scientific journals. Participation to national and international meetings. Outreach activities.

### **Head office**

Department of Geosciences

### **Specific teaching activity of the contract**

Academic Discipline teachings in the Bachelor's and Master's degree courses of the University of Pisa.

Candidates may present a maximum number of 12 scientific publications.

Candidates will be required to demonstrate an adequate knowledge of English language.