



UNIVERSITÀ DI PISA

Excerpt from the Rector's decree n. 31483/18

Call for the selection of 5 Senior Research Fellows

(Under the Italian Law 240/2010 article 24, subparagraph 3, point b)

The University of Pisa announces a call for 5 Senior Fixed-Term Research Fellows for: **(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 80 hours per academic year, with a 10% variability, allocated as an institutional assignment for Bachelor's and Master's degree programmes, Specialization Schools and PhD programmes. It is possible to provide a further 10% extra derogation, up to a maximum of 96 hours, in order to avoid an excessive partitioning of teaching modules.

Contract duration: 3 years

Gross annual salary: € 41.877,68

Deadline for application: 19/07/2018 , 1.00 p.m.

Admission requirements:

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

As for a qualification awarded abroad, equivalency or comparability documentation has to 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

Or under:

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

http://www.miur.gov.it/documents/20182/0/Equipollenza_Dottorato_ricerca_dpr382.pdf/f5ff98ae-ddff-4166-a822-83ef1b57c7f0

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.

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 a)

or

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

or

to hold a Medical Specialty 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)

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 Italian Law n. 240/2010, articles 22 and 24) for a period that, totalled 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 of the personal didactics, teaching and scientific activities, dated and signed; the curriculum must include all the qualifications applicant considers eligible for this selection;
2. The Publications applicant considers eligible for this selection;
3. The corresponding list dated and signed;
4. A complete list of all Publications, dated and signed;
5. A copy of the fiscal 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. All admitted candidates will be summoned by registered post at least twenty days before the interview; the failed attendance to the interview will be considered as a voluntary renunciation.

During the interview, all candidates will be furthermore tested on the foreign language skills requested by the selection.

The candidates living abroad and therefore unable to attend the interview at the University of Pisa, will be allowed to be interviewed via the web or a conference call, prior applicant's identification by approved international universities or research centres and upon the Selection Committee approval.

The Selection Committee is appointed to establish the duly examination of the candidates and shall acquire each candidate's copy of an identity card or passport.

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://www.unipi.it/ateneo/bandi/ricercat/ricercator/index.htm>

(1) If applicable

Selection code A_1

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination Sector: 09/E1 Electrotechnics

Disciplinary Scientific Sector: ING-IND/31 Electrotechnics

Number of available positions: 1

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities, and tutoring to undergraduate and graduate students.

Research activity:

Research activities in the areas of Electrotechnics in relation to the theoretical and experimental aspects and the development of applications to analysis, synthesis, numerical modeling and automatic design of equipment, devices and electrical systems, plasma engineering, thermonuclear fusion, particle accelerators, electrothermics, electromagnetic compatibility, quality, safety and environmental impact in electrical applications, signal processing circuits, adaptive circuits and neural networks, power electronics and electricity conversion

Scientific productivity:

The scientific activity involves participation in research projects financed by public or private bodies, the preparation of scientific articles for national and international publications, both in journals and scientific congresses and the filing of industrial patents.

Scientific productivity must be consistent with that of the SSD ING-IND / 31.

Head office:

Department of Energy, Systems, Territory, and Constructions Engineering.

Required didactic activity:

The teaching activity will be carried out within the teachings of the ING-IND / 31 sector, and will consist of lectures and exercise activities for the students, according to the needs of the teaching programs. This also includes tutoring activity in the preparation of undergraduate and doctoral theses. The total annual commitment for the activities of teaching, supplementary teaching and service to students is consistent with that provided by the University regulations.

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

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

Selection code A_2

Department of Civil and Industrial Engineering

Admission Examination Sector 09/A3 INDUSTRIAL DESIGN, MACHINE CONSTRUCTION AND METALLURGY

Disciplinary Scientific Sector: ING-IND/14 MECHANICAL DESIGN AND MACHINE CONSTRUCTION

Nr. of position available: 1

Focus of research:

Research activity will cover some of the Machine Design typical subjects, with particular focus on vehicle mechanics and on the dynamic analysis of vehicles and structures by multibody simulation. Research activity will cover also the analysis and experimental characterization of the mechanical behavior of materials, including smart materials, developed by both conventional methods and by additive manufacturing.

Scientific productivity:

The research activity envisages the participation and coordination of research projects and research contracts funded by public or private subjects, the participation to national and international conferences and meetings, writing and submission of scientific papers to peer reviewed international journal and to conferences, for dissemination of the achieved results and developed methodologies

Head office:

Department of Civil and Industrial Engineering

Specific didactic activity of the contract:

The senior researcher shall carry out his didactics within the branches of knowledge of the admission Examination Sector 09/A3, mainly for the courses of the SSD ING-IND/14, with particular reference to the course of Automotive design of the Master Laurea in Automotive Engineering.

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

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

Selection code A_3

Department of Civil and Industrial Engineering

Admission Examination Sector 08/B3 - STRUCTURAL ENGINEERING

Disciplinary Scientific Sector ICAR/09 - STRUCTURAL ENGINEERING

Nr. of position available: 1

Focus of research:

Design, modelling, and analysis, also through the execution of experimental laboratory activities, of seismic-resistant reinforced concrete and steel civil and industrial structures, using traditional and enhanced materials.

Analysis of the structural safety and seismic vulnerability of existing reinforced concrete and masonry structures; development of innovative solutions for the seismic retrofit of existing buildings.

Scientific productivity:

The scientific activity foresees the participation and the scientific coordination of national and international research projects and contracts, financed by both public or private bodies, the preparation of research papers for publication in international journals and for the presentation during national and international conferences.

Head office:

Department of Civil and Industrial Engineering

Specific didactic activity of the contract:

One of the teaching activity consistent with SSD ICAR/09 (Structural engineering) in the master's degree in Structural and Building Engineering. If necessary, the teaching activity can be extended to the field of SSD ICAR / 08 (Structural mechanics)

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

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

Selection code A_4

Department of Information Engineering

Admission Examination Sector: 09/H1 - INFORMATION PROCESSING SYSTEMS

Disciplinary Scientific Sector ING-INF/05 - INFORMATION PROCESSING SYSTEMS

Nr. of position available: 1

Focus of research:

Research activities related to the scientific sector “09/H1 - Information processing systems”, with reference to innovative methodologies and technologies for Industry 4.0

Scientific productivity:

Publication of papers on qualified international scientific journals; participation to international conferences; involvement in national and international research projects.

Head office:

Department of Information Engineering

Specific didactic activity of the contract:

Teaching activity in courses of the scientific sector “09/H1 - Information processing systems”. Management of teaching activities and projects.

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

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

Selection code A_5

Department of Information Engineering

Admission Examination Sector: 09/G2 - BIOENGINEERING

Disciplinary Scientific Sector: ING-INF/06 - ELECTRONIC AND INFORMATICS BIOENGINEERING

Nr. of position available: 1

Focus of research:

Research activities in Biomedical Engineering regarding the processing of data and signals as well as advanced information technology and mathematical models for application to cardiology and neurology.

Scientific productivity:

The candidate is expected to make significant advances in topics within the area 09/G2 documented by high quality peer-reviewed publications. He/she is expected to bid for competitive research funding at the local, national, and international level

Head office:

Department of Information Engineering

Specific didactic activity of the contract:

Courses within the area 09/G2 (SSD ING-INF/06), in particular regarding analyses and modeling of bio-signals and bioimages, multivariate statistics of biomedical data and advanced methods for the acquisition of biomedical signals and images.

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

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