



UNIVERSITÀ DI PISA

Except from the Rector's decree n. 2609/2022

Call for the selection of n. 1 Junior Research Fellows

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

The University of Pisa announces a call for 1 Junior Fixed-Term Research Fellow for the Department and the scientific area or sector 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 Junior Research Fellow is required to perform lectures for a minimum of 36 up to a maximum of 60 hours per academic year, 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 derogation up to a maximum of 72 hours, in order to avoid an excessive partitioning of teaching modules.

Contract duration: 3 years

Deadline for application: 30/01/2023 1 p.m.

Admission requirements:

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

medical specialization, for the sectors concerned

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:

<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.

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).

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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;
 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 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.

Date, time and procedures for qualifications and publications' discussion will be issued on the University website at the following link: <https://bandi.unipi.it/public/Bandi?type=RIC>, on the relevant section of the procedure referred to in this call on **6 febbraio 2023** (providing a 20 days' notice at least).

The notice on the University website will be considered as a notification for the selection candidates, who will have to attend on the day and time indicated without any further communication.

No personal communication will be sent to candidates; therefore, the selection candidates are required, in any case, to check on the University website at the link above on 28 October 2022 and then during the two days preceding the date set for the interview.

Failing to attend the interview at the date and place set for the selection will be considered an explicit and definitive waiver by the candidates who will therefore be excluded from the selection, whatever the cause of their absence, even if for reasons independent from their will.

"The list of candidates admitted to the interview will be published on the university website at <https://www.unipi.it/index.php/concorsi-gare-e-bandi> in the section dedicated to the procedure in this call"

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

Cod. RIC2022PNRR-9

Department of Civil and Industrial Engineering
Admission Examination Sector 09/A2 09/A2 Applied Mechanics
Disciplinary Scientific Sector ING-IND/13 Applied Mechanics

Progetto PNRR Centro Nazionale di Ricerca per la mobilità sostenibile (CN 4) - Spoke 11 - Materiali innovativi e alleggerimento

Focus of research:

The research topics include those typical of the sector with special focus on theoretical studies and experimental investigations on mechanical systems, mechanical machines and their components through methodologies and best practices typical of theoretical, applied and experimental mechanics.

In particular, theoretical and experimental tribological investigations will be performed on new materials for automotive and aerospace components including experimental campaigns aimed at characterizing friction and wear on lubricated and dry contacts.

The research is focused on critical mechanical components found in automotive and aerospace industries, with special reference to mechanical transmissions, high-power gear drives and lubricated and dry contacts in general.

The paramount objectives pursued are the characterization of wear and tribological properties in higher kinematic pairs via extensive experimental campaigns and the structural and tribological optimization of the design of critical mechanical components. Special emphasis is directed towards macro-geometry and micro-topography optimization of gear teeth of hypoid and spiral bevel gears, both largely employed both in automotive and aerospace systems.

Scientific productivity

Publication of journal papers on peered review journals. Participation in national and international conferences as a speaker. Development of numerical algorithms and computer codes. Filing of any patents.

Head office

Department of Civil and Industrial Engineering

Specific didactic activity of the contract

Classes and teaching activities related to the topics associated to the general subject of Mechanics Applied to Machines

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

Candidates may present a maximum number of 12 scientific publications