



## UNIVERSITÀ DI PISA

Excerpt from the Rector's decree n. 1427/2022

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

The University of Pisa announces a call for 3 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: 17/10/2022, 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](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](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.

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](mailto:protocollo@pec.unipi.it) or via e-mail at: [concorsi@adm.unipi.it](mailto: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](mailto:concorsi@adm.unipi.it)

For any IT malfunctioning please refer to [unipi@cinca.it](mailto:unipi@cinca.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.

In compliance with the provisions adopted following the COVID-19 epidemiological emergency, interviews will take place on virtual mode to ensure the simultaneous connection between the members of the Commission and the candidates, under the regulations on the protection of personal data for confidentiality conservation.

During the interview it will be forbidden the audio / video recording through the IT platforms used as well as the broadcasting of the audio / video recording made with tools other than the platform.

The interview disclosure will be guaranteed inviting all candidates and any third part who has requested, with a link to the event; the link will be published at <https://www.unipi.it/index.php/concorsi-gare-e-bandi> in the section "Prove e colloqui in modalità telematica - Aule virtuali" and will allow the connection to the telematic session.

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 28 October 2022 (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

Selection code A1

**Department of Computer Science**

Admission Examination: 01/B1 Informatics

Disciplinary Scientific Sector: INF/01 Informatics

Nr. of position available: 1

Research Infrastructure PNRR Project - SoBigData - CUP B53C22001760006

**Areas of research activity:**

Research activities will be conducted in the fields of the academic discipline INF/01 "Informatics", with particular attention to the area of the design of algorithms and data structures for the efficient storage, indexing and searching in big data, analyzed through the computational theoretical models and methodologies proper of Algorithmics. In particular, the researcher will have to address issues concerning space optimization (via the proper use of state-of-the-art data compression techniques) and time efficiency (in the asymptotic sense, measured in computational models that abstract the hierarchical memories where those big data are stored) of the proposed solutions. The researcher will also be asked to contribute to the implementation of open-source software libraries that will be tested on international datasets and benchmarks, with the aim of proving their impact on the development of efficient platforms and applications for BigData Infrastructures.

**Aims and Objectives and envisaged research output:**

The researcher will be required to maintain the highest scientific standards publishing his/her results in international conferences and journals (green/open access), and develop open-source software libraries to prove the practical impact of his/her proposed algorithmic solutions. The researcher will also have to contribute to promoting his/her own research, also via the possible IP protection of the achieved scientific results through national and international patents

**Head office**

Department of Computer Science

**Specific didactic activity of the contract:**

Teaching to all levels of students (undergraduate and graduate) of the academic discipline INF/01 –Informatics, with special attention to advanced courses on the topics of the proposed research.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A2

**Department of Computer Science**

Admission Examination: 01/B1 Informatics

Disciplinary Scientific Sector: INF/01 Informatics

Nr. of position available: 1

Research Infrastructure PNRR Project - SoBigData - CUP B53C22001760006

Areas of research activity:

Inter- and multi-disciplinary research topics related to the sector INF/01 "Informatica", with particular reference to models and methods of Social Data Science, Social Network Analysis, Computational Social Science and Artificial Intelligence for the analysis of complex social systems mediated by digital technologies, such as urban mobility, social media, online marketplaces, etc.

Aims and Objectives and envisaged research output:

Contribution to the progress of the state of art in the specific research activity by means of international-level publications

Head office

Department of Computer Science

Specific didactic activity of the contract:

The duties of the role include delivering teaching to all levels of students (undergraduate and graduate) of the academic discipline INF/01 –Informatics and in particular within the Laurea Magistrale (M.Sc.) in Data Science and Business Informatics;

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

Candidates may present a maximum number of 12 scientific publications

**Department of Computer Science**

Admission Examination: 01/B1 Informatics

Disciplinary Scientific Sector: INF/01 Informatics

Nr. of position available: 1

Research Infrastructure PNRR Project - SoBigData - CUP B53C22001760006

Areas of research activity:

Inter- and multi-disciplinary research topics related to SSD INF/01, with special reference to models and methods for assessing the risk of privacy violation of users of digital services and corresponding risk mitigation, with reference to information related to human activities such as mobility, social interaction, etc., and Artificial Intelligence and Machine Learning systems.

Aims and Objectives and envisaged research output:

Contribute to the progress of the state of art in Computer Science by means of international-level publications

Head office

Department of Computer Science

Specific didactic activity of the contract:

The duties of the role include delivering teaching to all levels of students (undergraduate and graduate) of the academic discipline INF/01 –Informatics and in particular students of Data Science and Business Informatics;

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

Candidates may present a maximum number of 12 scientific publications