The University of Pisa announces public selection procedures for the award of 1 postdoctoral position 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: 26th May 2026 at 1 pm

Contract duration: 12 months

Annual administrative gross amount: € 41.500,00

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) or Carta d'Identità Elettronica (CIE), selecting the University of Pisa among the available Institutions.

If candidates do not have SPID/CIE, they can request it in accordance with the procedures set forth on the website www.spid.gov.it or www.cartaidentita.interno.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, REPRISE 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 nor 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 SPID/CIE digital identifier, the applicant's signature is mandatory;

- If submitted by accessing with the SPID/CIE digital identifier, 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).

ANNEX A

Selection code - post-doc_inf2026_4

Department of Computer Science

GSD 01/INFO-01 Informatics
SSD INFO-01/A Informatics

Progetto FIS-1 MIMOSA
CUP Progetto I53C23001760001

Supervisor of the appointee's activities:
Prof. Riccardo Guidotti

Title of the activities covered by the appointment:
Extraction of Interpretable Machine Learning Models for the Analysis of Spatio-Temporal Data

Activities to be carried out (covered by the appointment):
The MIMOSA project introduces a paradigm shift from data mining to model mining, with the goal of revolutionizing both the theory and practice of artificial intelligence and fostering alignment between human reasoning and machine logic. Within this context, the activity associated with this position focuses on the extraction of interpretable machine learning models for the analysis of spatio-temporal data, an area of growing relevance in critical applications such as environmental monitoring, intelligent mobility, digital healthcare, and finance. The objective of the activity is to define advanced methodologies for extracting predictive models that are not only accurate but also interpretable and capable of capturing the spatio-temporal dynamics of data. In particular, the aim is to develop a methodological framework that integrates interpretable machine learning techniques, probabilistic models, generative models, and evolutionary approaches, in order to produce explanatory representations of the analyzed phenomena, facilitating the understanding of underlying spatio-temporal patterns. The activity also aims to contribute to the development of AI-based decision support systems characterized by high transparency and reliability, promoting the adoption of fair, robust, and privacy-preserving models. In line with the objectives of the MIMOSA project, particular attention will be devoted to the generation/extraction of ethically responsible models that combine advanced predictive capabilities with intrinsic interpretability on spatio-temporal data.

Specific responsibility relating to the activities of the appointment and functions to be performed:
The researcher will be responsible for defining, designing, implementing, and validating innovative methodologies for the analysis and modeling of spatio-temporal data using interpretable machine learning techniques. In particular, the activity will include the development of models capable of transparently representing spatial and temporal dependencies in data while maintaining high predictive performance. Prior knowledge in the development and use of rule-based and instance-based approaches is important. The researcher will contribute to the development of solutions based on advanced learning techniques for sequential and spatial data, possibly integrated with evolutionary, rule-based, and/or neuro-symbolic approaches, in order to improve the trade-off between accuracy and interpretability. The researcher will also be involved in the design and implementation of software tools and reference libraries for the extraction and visualization of interpretable models. Research activities will include the validation of developed methodologies on real or realistic case studies, with particular attention to application domains characterized by complex spatio-temporal data. During these activities, the researcher will need to consider ethical and responsible AI aspects such as fairness, privacy, robustness, and scalability, depending on the application context. Finally, the researcher will contribute to the dissemination of scientific results through publications in high-level international journals and conferences, actively collaborating with the MIMOSA research group and participating in the development of future research directions.

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:
9th June 2026 at 4 pm in presence at the department of Computer Science – Largo B. Pontecorvo, 3 - Pisa

The interview will be conducted in Italian