



UNIVERSITÀ DI PISA

Excerpt from Rector's decree no. 1552/2024

Call for the selection of 9 fixed-term Tenure Track Researcher (RTT)
(under Italian Law 240/2010, article 24)

Procedure with restricted access, according to the provisions from paragraph 1-bis of article 24

The University of Pisa announces a call for 9 fixed-term Tenure Track Researcher (RTT) 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 provide services to students, and involves a commitment of 350 hours, on a full-time basis.

The **Tenure Track Researcher (RTT)** is required to deliver lectures for a minimum of 36 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. From the fourth year onwards, the maximum limit is increased to 120 hours.

Contract duration: max 6 years

Deadline for application: 29th of August 2024, 1 p.m.

Admission requirements:

PhD or equivalent academic qualification awarded in Italy or abroad and recognized as eligible for admission. or medical specialization, for the sectors concerned

As for qualifications 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

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 documentation before the signing of the contract.

Admission is reserved for those who have attended, for at least thirty-six months, even cumulatively, PhD courses or carried out research activities, on the basis of a formal assignment, with the exclusion activities carried out free of charge, at universities or research institutions, both Italian and foreign, other than the University of Pisa.

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.

No admission to this selection for:

- Professors or Research Fellows with permanent positions at the university, currently employed or currently retired, as well as individuals who have benefited, for at least three years, from contracts for fixed-term tenure track researchers.
- Those who have a degree of kinship or affinity, up to and including the fourth degree, with a lecturer belonging to the structure where the contract is activated, or with the Rector, the Director-General or a member of the Board of Directors of the University cannot apply.

Applications:

Applications are to be submitted online only, using the following link: <https://pica.cineca.it/unipi/tipologia/docenti> 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 the deadline, the system will allow neither login nor application submissions.

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

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

Applicants undertake to communicate in writing any changes in what they declared in the application form.

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

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

For any IT malfunctioning please refer to the link at the bottom of the page: <https://pica.cineca.it/unipi>.

Applications shall be completed with the following attachments:

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. A list of publications the applicant considers eligible for this selection, 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 such 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 per cent of the total and will be not less than six. The interview will concern the 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 guaranteed minimum of fifteen days' notice).

The publication on the University website is to be regarded as an invitation notice for the participants to the selection. Such notice must indicate the day and time; no further communications will be published. Failure to attend the interview will be considered as a voluntary withdrawal from 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 one valid. For the full Italian text see: <https://bandi.unipi.it/public/Bandi?type=RIC>

Selection code A1

Department of Biology

GSD 05/BIOS-15 Microbiology

SSD BIOS-15/A Microbiology

Nr. of available positions: 1

Focus of research

The research activity will be focused on studies in the field of microbiology and microbial biotechnology with regard to the structure, physiology, functional genomics and interaction of all microorganisms, including fungi and viruses. Placing microorganisms at the center of interest, the activities will also address: the distribution of microorganisms in nature, the role they play in the host or in the environment, their interactions and complex microbial communities e.g. biofilm), the adaptive responses and evolutionary processes of microorganisms, also through "omics" and synthetic biology approaches, the cellular and molecular bases of both the physiological and pathological interactions of microorganisms with the host; the mode of action of antimicrobials and antimicrobial resistance, the genetic manipulation of microorganisms for applicative purposes. In particular, yeast will be studied as a model for understanding and characterizing the molecular mechanisms underlying microbial pathogenicity and drug resistance.

Scientific productivity

Scientific production will be aimed at dissemination of results by publication of manuscripts evaluated on the basis of internationally recognized impact factors and by oral/poster communications at National and International conferences. Participation to National and International research projects will also be pursued.

Head office

Department of Biology

Specific teaching activity of the contract

Teaching activity will be fulfilled by lecturing 1 course of microbiological disciplines according to the Departmental teaching needs and by performing tutorial activity of students in the laboratory (supervision of undergraduate and PhD thesis) as well as in practical tutorials of Microbiology courses. Teaching activity will also include seminars for the PhD course in Biology.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A2

Department of Philology, Literature and Linguistics

GSD 11/HIST-03 Contemporary History

SSD HIST-03/A Contemporary History

Nr. of available positions: 1

Focus of research

The researcher will have to carry out research activities in an SSD that asks for skills related to scientific and didactic activity in all fields concerning the history of the period ranging from the great political, economic, social and cultural transformations and revolutions of the late 18th century to the present time. The sector critically uses different types of sources to analyze and understand all phenomena, events, the relationships of human beings with the environment in the period considered on a local, national, international, global scale, it also tries to identify through the tools of comparative history, connections and correlations between these different levels. The sector favors and promotes interdisciplinary approaches that help this effort of understanding, supports dialogue between different disciplines and distinct methodologies, and is open to the use and application of different analytical categories: class, gender, "race", disability. It includes studies on the methodology and historiography of the period considered, also with reference to memory, the public dimension of historical knowledge and its communication, as well as the impact on the discipline of digital technologies. It develops both critical and analytical skills and those relating to the teaching of the discipline.

Scientific productivity

Objective of the research project: in the three years the researcher will publish at least 5 contributes (2 of which published in A-ranked Journals) or 1 volume and 2 contributes (1 of which published in A-ranked Journals).

Head office

Department of Philology, Literature and Linguistics

Specific teaching activity of the contract

The contract includes 350 hours of supplementary teaching (doctoral lectures, courser for teachers, assistance to students) for each academic year covered by the contract. The contract shall schedule at least 48 hours of teaching on annual basis.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A3

Department of Economics and Management

GSD 13/STEC-01 Economic History - History of Economics

SSD STEC-01/B Economic History

Nr. of available positions: 1

Focus of research

In accordance with the declaratory of SSD STEC-01/B, the study of economic facts in historical perspective. The main fields of investigation are the history of agriculture, industry, finance, trade and transport; business history, history of population, institutions, and territory. In-depth knowledge of the laws governing economic phenomena, along with the specificity of historical methodology, including quantitative methodology, represent characteristic elements, that lead to an exclusive approach to original and secondary sources.

Scientific productivity

Scientific articles, participation in research groups, and presentations at conferences congruent with the scientific area covered by the call.

Head office

Department of Economics and Management

Specific teaching activity of the contract

Teaching courses in the field of "Storia Economica" (SSD STEC-01/B, previously SECS-P/12) activated in the Courses of Study of Dipartimento di Economia e Management.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A4

Department of Computer Science
GSC 01/MATH-06 Operations Research
SSD MATH-06/A Operations Research
Nr. of available positions: 1

Focus of research

Research topics within the scientific disciplinary sector MATH-06/A as specified by the sector's declaration.

Scientific productivity

The expected scientific commitment involves conducting research activities in the fields relevant to the scientific-disciplinary sector MATH-06/A - Operations Research and the interdisciplinary themes connected to it.

Head office

Department of Computer Science.

Specific teaching activity of the contract

Teaching courses within the scientific-disciplinary sector MATH-06/A - Operations Research as outlined by national regulations and tailored to meet the educational needs of the degree programs and master's degrees offered by the University.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A5

Department of Civil and Industrial Engineering

GSD 09/IIND-07 Thermal Sciences, Energy Technology, Building Physics and Nuclear Engineering

SSD IND-07/D Nuclear Power Plants

Nr. of available positions: 1

Focus of research

The objective of the research is the theoretical and experimental study of safety systems and components of nuclear fusion and/or fission plants from the thermohydraulic and thermo-fluiddynamic points of view. In particular, the research will cover existing, newly conceived, and fourth-generation fission reactors as well as fusion nuclear installations.

The research will be carried out using the experimental equipment available at the Department of Civil and Industrial Engineering, System and CFDs codes in collaboration with Universities and national and international research centers.

Scientific productivity

The objectives of scientific productivity will be the design, implementation and coordination of research activities in the field of fission and/or fusion nuclear reactors, developed in national and international environments in collaboration with Italian and foreign institutions. Participation in European, national and international research projects and technology transfer. Improved reliability and safety of fission and/or fusion nuclear installations. Publication of results in indexed international scientific journals, and participation in national and international conferences.

Head office

Department of Civil and Industrial Engineering

Specific teaching activity of the contract

The researcher will cover needs of teaching in its different forms that will emerge in the frame of the didactic programming, in relation to the scientific sector of Nuclear Plants, in the various programs active at the University of Pisa.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A6

Department of Energy, Systems, Territory, and Construction Engineering

GSD 08/CEAR-12 Urban and Landscape Planning and Design

SSD CEAR-12/A Urban and Regional Planning

Nr. of available positions: 1

Focus of research

The research activities will address the topics of urban and regional planning, as detailed in the descriptive declaration of SSD CEAR-12/A.

Scientific productivity

Researches relevant to the SSD, publications in national and international scientific journals, participation in national and international conferences, cooperation researches with national and international authorities and institutions.

Head office

Department of Energy, Systems, Territory, and Construction Engineering

Specific teaching activity of the contract

Teaching activities in compliance with the University provisions concerning the teaching duties of researchers with fixed term contracts, addressed to the specific issues of SSD CEAR-12/A (ex ICAR/20), as detailed in its descriptive declaration, and according to the Department teaching programme.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A7

Department of Mathematics

GSD 01/MATH-03 Mathematical Analysis, Probability and Mathematical Statistics

SSD MATH-03/A Mathematical Analysis

Nr. of available positions: 1

Focus of research

Research in Mathematical Analysis in all its branches: analytic number theory, real analysis, measure theory, integration and approximation, geometric measure theory, complex analysis in one and several variables, harmonic analysis, functional analysis, algebras and theory of linear and nonlinear operators, ordinary and integral differential equations in finite and infinite dimensions, dynamical systems, linear and nonlinear partial differential equations, calculus of variations, mathematical theory of control and games, inverse problems, variational methods and optimization, analytical aspects of geometric theories, development of innovative analytical methods for physical theories (including classical, quantum, and relativistic field theories, transport and diffusion theories, kinetic theories, fluid dynamics). Development of rigorous and innovative methodologies for analyzing problems that arise both within mathematics and in applications to physical, natural, social, and life sciences, computer science, and technological innovation. Development of new analytical methods to rigorously frame the study and validation of mathematical models for life sciences, economics and social sciences, engineering, computer science, artificial intelligence, also in light of numerical simulations and data analysis.

Scientific productivity

Drafting research articles of interest in the field of Mathematical Analysis for publication in general or specialized journals, nationally or internationally. Presentation of research results at seminars in universities and research institutes, and at international and national conferences.

Head office

Department of Mathematics

Specific teaching activity of the contract

Teaching courses on basic mathematics in all study programs of the university, as well as advanced courses on topics specific to the scientific disciplinary sector of Mathematical Analysis in bachelor's, master's, and doctoral programs in mathematics.

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A8

Department of Agricultural, Food and Agro-Environmental Sciences

GSD 07/AGRI-08 Agricultural, Food and Environmental Microbiology

SSD AGRI-08/A Agricultural, Food and Environmental Microbiology

Nr. of available positions: 1

Focus of research

The researcher will carry out research activities within the scientific discipline AGRI-08/A (Agricultural Food and Environmental Microbiology). In particular, the activity will address mainly the issues related to the study of biochemistry, biodiversity, ecology and physiology of microorganisms of agricultural, food and environmental interest, and the role of microorganisms in natural and agricultural ecosystems.

Scientific productivity

Publications in international journals indexed ISI/Scopus; participation in national and international congresses, participation in calls for competitive national and international research projects. Scientific productivity should align with that of the reference sector AGRI-08/A.

Head office

Department of Agricultural, Food and Agro-Environmental Sciences

Specific teaching activity of the contract

Teaching for the disciplinary scientific field AGRI-08/A (Agricultural Food and Environmental Microbiology), there is a commitment to the corresponding courses activated within the degree in "Agricultural Sciences" and master's degrees in "Plant and Microbial Biotechnology", "Biosafety and Food Quality" and "Sustainable Agricultural Systems"

Candidates may present a maximum number of 12 scientific publications, including the doctoral thesis if presented.

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

Selection code A9

Department of Political Sciences

GSD 14/GSPS-08 Sociology of Economics, Labour, Environment and Territory

SSD GSPS-08/A Sociology of Economic and Labour Processes

Nr. of positions available: 1

Focus of research

Participation in research activities and projects in the field of economic sociology, the sociology of work, and organizational and production processes, with particular reference to socio-environmental changes characteristic of modernization, capitalist and technological transformation, and ecological crisis and transition, including the new risks of social and labor inequalities.

Scientific productivity

Participation in national and international scientific networks, seminars, and conferences; publications of articles in peer-reviewed scientific and Class A journals and contributions in edited and/or collective works.

Head office

Department of Political Sciences

Specific teaching activity of the contract

Economic Sociology, Sociology of Work, Sociology of Organization

Candidates may present a maximum number of **20** scientific publications (not less than 12), including the doctoral thesis if presented.

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