



UNIVERSITÀ DI PISA

Excerpt from the Rector's decree n. 3252 del January 16, 2019

Call for the selection of n. 18 Junior Research Fellows

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

The University of Pisa announces a call for 18 Junior Fixed-Term Research Fellows for the Departments and the scientific areas or sectors 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 60 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 72 hours, in order to avoid an excessive partitioning of teaching modules.

Contract duration: 3 years

Gross annual salary: € 34.898,06

Deadline for application: **March 18, 2019, 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.

Candidates are required to declare what follows:

1. To enjoy the full rights of citizenship in their home State
2. *Not to have 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. Not to have been dismissed or dispensed from employment by a Public Administration for

persistent unsatisfactory performance; or not to have been lapsed from State employment, in compliance with art. 127, first paragraph, point d) of the Consolidation Act of provisions concerning the State civil servants approved by Presidential Decree no. 3 of 10 January 1957;

4. to be registered on the electoral roll;

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.

Please forward to the Rector by within the submission deadline any further variation, by the Italian certified e-mail system address (P.E.C. Posta Elettronica Certificata): protocollo@pec.unipi.it or by e-mail address concorsi_ricercatori@unipi.it, (only PDF documents are allowed, dated and signed ; a candidate's valid ID card copy is required in attach).

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 Chemistry and Industrial Chemistry

Admission Examination Sector 03/B1 - PRINCIPLES OF CHEMISTRY AND INORGANIC SYSTEMS

Disciplinary Scientific Sector CHIM/03 - GENERAL AND INORGANIC CHEMISTRY

Nr. of position available 2

Focus of research

The design, the development of synthetic strategies the structural characterization the study of the chemical reactivity and the properties of molecular compounds based on transition metal

Scientific productivity

Dissemination of the results to the scientific community through publications in peer-reviewed international journals, presentation of the results in national and international conference

Head office

Department of Chemistry and Industrial Chemistry

Specific didactic activity of the contract

Teaching courses within the Department of Chemistry and Industrial Chemistry, and other Departments of the University of Pisa wherein the SSD CHIM/03 expertise is required

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

Candidates may present a maximum number of 12

Selection code A_2

Department of Chemistry and Industrial Chemistry

Admission Examination Sector 03/C2 - INDUSTRIAL AND APPLIED CHEMISTRY

Disciplinary Scientific Sector CHIM/04 - INDUSTRIAL CHEMISTRY

Nr. of position available 1

Focus of research

Topics that belong to the declaration of SSD CHIM/04 with reference to the study of the scientific and technology aspects for the micro- nanoscale processing and structuring of industrially relevant polymeric materials by means of advanced techniques, their experimental characterization and determination of structure-properties relationships”

Scientific productivity

Scientific publications, participations and presentations in meetings, possible filings of industrial patents”

Head office

Department of Chemistry and Industrial Chemistry

Specific didactic activity of the contract

Courses in polymer science and technology, industrial chemistry and materials for special applications;

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

Candidates may present a maximum number of 12

Selection code A_3

Department of Civilisations and Forms of Knowledge

Admission Examination Sector 11/C5 - HISTORY OF PHILOSOPHY

Disciplinary Scientific Sector M-FIL/06 - HISTORY OF PHILOSOPHY

Nr. of position available 1

Focus of research

The scope of the research consists of the study of the genesis and historical development of philosophy, with particular focus on the period extending from the Renaissance to the early modern age, also in reference to the relationships with other disciplines characterizing that period.

Scientific productivity

Scientific activity will focus on the publication of texts and the production of essays and comments.

Head office

Department of Civilisations and Forms of Knowledge Head office

Specific didactic activity of the contract

Seminars and courses in History of Philosophy from the Renaissance to the Early Modern Age.

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

Candidates may present a maximum number of 12

Selection code A_4

Department of Pharmacy

Admission Examination Sector 05/D1 - PHYSIOLOGY

Disciplinary Scientific Sector **BIO/09** - PHYSIOLOGY

Nr. of position available 1

Focus of research

The scientific activity will cover topics specific to the disciplinary scientific field **BIO / 09 (Physiology)** including the study of homeostatic responses of an organism at the cellular and tissue level, in the context of changes in the surrounding environment. In particular, it will focus on the study of the electrophysiological and functional mechanisms of communication systems in biological membranes as well as the specialized functions of individual cells.

Scientific productivity

Gain full scientific independence, possibly through the supervision of BSc, and MSc theses. Acceptance during the three year period of an appropriate number of papers on international journals coherent with the examination sector. Dissemination of the obtained results in national and international meetings, and on the web.

Head office

Department of Pharmacy

Specific didactic activity of the contract

Teaching courses of BSc, and MSc of the Department Pharmacy and other Departments of the University of Pisa in which the SSD (disciplinary scientific sector **BIO/09**) skills are requested.

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

Candidates may present a maximum number of 12

Selection code A_5

Department of Pharmacy

Admission Examination Sector 03/C1 - ORGANIC CHEMISTRY

Disciplinary Scientific Sector CHIM/06 - ORGANIC CHEMISTRY

Nr. of position available 1

Focus of research

“Development of efficient and environmentally friendly synthetic or extraction methodologies, also based on catalytic approaches, for the obtainment of biologically active organic compounds, of new organic materials, also in view of their possible use. Study of the mechanisms through which organic compounds are formed and transformed, their supramolecular interactions and structure-reactivity relationships

Scientific productivity

Dissemination of the results to the scientific community through publications in peer-reviewed international journals, presentation of the results in national and international meetings, filing of patents”

Head office

Department of Pharmacy

Specific didactic activity of the contract

Courses in the field of Organic Chemistry for training activities of the SSD CHIM06 for the Bachelor and Master's degree courses of the University of Pisa

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

Candidates may present a maximum number of 12

Selection code A_6

Department of Pharmacy

Admission Examination Sector 03/D1 - MEDICINAL, TOXICOLOGICAL AND NUTRITIONAL CHEMISTRY AND APPLIED TECHNOLOGIES

Disciplinary Scientific Sector CHIM/08 - PHARMACEUTICAL CHEMISTRY

Nr. of position available 1

Focus of research

The study of synthetic products with biological activity, developing the design, the synthesis, the study of the properties, of the action mechanisms at the molecular level, and the relationships between chemical structure and biological activity.

Scientific productivity

Gain full scientific independence, possibly through the supervision of BSc, and MSc theses. Acceptance during the three year period of an appropriate number of papers on international journals coherent with the examination sector. Dissemination of the obtained results in national and international meetings, and on the web.

Head office

Department of Pharmacy

Specific didactic activity of the contract

Teaching courses of BSc, and MSc of the Department Pharmacy and other Departments of the University of Pisa in which the SSD (disciplinary scientific sector CHIM/08) skills are requested.

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

Candidates may present a maximum number of 12

Selection code A_7

Department of Philology, Literature and Linguistics

Admission Examination Sector 10/G1 - HISTORICAL AND GENERAL LINGUISTICS

Disciplinary Scientific Sector L-LIN/01 - HISTORICAL AND GENERAL LINGUISTICS

Nr. of position available 1

Focus of research

The successful candidate will carry out research in the following areas: theoretical studies on language, the history of linguistic thought and comparative philology, with special reference to the problems of linguistic change, the methodologies of comparative and reconstructive linguistics. Also: the study of linguistic variation, multilingualism, and linguistic contact and interference; the main themes of sociolinguistics and ethnolinguistics. In addition s/he will do research using methodologies of applied linguistics, the study of phono-acoustics, morphosyntax and lexicography, also with reference to dialectology, psycholinguistics, the study of pathologies affecting or impairing the use of language, and the study of the interactions between linguistics and IT studies, as well as the problems of linguistic education. Also included is the study of the Baltic languages and their philology.

Scientific productivity

Aims and Objectives and envisaged research output: publications in peer-reviewed journals at international level; publications in conference proceedings.

Head office

Department of Philology, Literature and Linguistics

Specific didactic activity of the contract

BA and MPhil degree courses; participation in the doctoral seminars active in the Department.

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

Candidates may present a maximum number of 15

Selection code A_8

Department of Law

Admission Examination Sector 12/C1 - CONSTITUTIONAL LAW

Disciplinary Scientific Sector IUS/08 - CONSTITUTIONAL LAW

Nr. of position available 1

Focus of research

“The identification and the protection of fundamental rights in the relationship between the Legislature, the Constitutional Court and the Judicial Authority, with particular reference to the models of constitutional justice and the relationships with the supranational systems of fundamental rights protection”

Scientific productivity

“At least three articles in national or international journals and at least one monograph on matters pertaining to the scientific area IUS/08 (Constitutional Law). Participations in conferences at national or international level. Participation in national or international research groups”.

Head office

Department of Law

Specific didactic activity of the contract

Teaching commitments include courses held both in Italian and in English of International Law and EU Law, within the limits laid down in the regulation of the University of Pisa for the recruitment of fixed-term research fellow according art. 24 Law. 240/2010.

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

Candidates may present a maximum number of 12

Selection code A_9

Department of Computer Science

Admission Examination Sector 01/B1 - INFORMATICS

Disciplinary Scientific Sector INF/01 - INFORMATICS

Nr. of position available 1

Focus of research

Research activities in the fields of the academic discipline INF/01 "Informatics"

Scientific productivity

Contributions 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

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

Candidates may present a maximum number of 12

Selection code A_10

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 “ING-INF/05 - Information processing systems”, with special interest on system design for industrial applications.

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 and tutoring activities in courses of the scientific sector “ING-INF/05 - Information processing systems”.

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

Candidates may present a maximum number of 12

Selection code A_11

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination Sector 08/F1 - URBAN AND TERRITORIAL PLANNING AND DESIGN

Disciplinary Scientific Sector ICAR/20 - URBAN AND REGIONAL PLANNING

Nr. of position available 1

Focus of research

The researcher will perform scientific research activities either at a basic level or aimed at the analysis and planning of urban and territorial systems with specific attention to the framework of social and economic variables that affect them. The research activities will be focused on the methods for the identification of the characteristics that influence the different policies for the management and programming of the interventions and will particularly consider the techniques for planning tools at all scales.

Scientific productivity

The scientific activity involves the preparation of scientific articles for international publications, both in journals and scientific congresses

Head office

Department of Energy, Systems, Territory, and Construction Engineering

Specific didactic activity of the contract

The teaching activity, will be carried out within the courses of the ICAR/20 sector, and will consist of lectures, seminars and exercise activities for the students, tutoring activity in the preparation of undergraduate and doctoral theses.

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

Candidates may present a maximum number of 12

Selection code A_12

Department of Mathematics

Admission Examination Sector 01/A3 - MATHEMATICAL ANALYSIS, PROBABILITY AND STATISTICS

Nr. of position available 1

Focus of research

The branches of mathematical analysis, including harmonic, convex, functional, linear and non-linear analysis; differential equations (ODE's and PDE's), calculus of variations and function theory; measure theory; probability theory and stochastic processes, including in particular the stochastic aspects of the theories of reliability, queuing, decision, games, and many-particle systems; stochastic processes and their applications, including the aspects related to many-particle systems; mathematical statistics, analytic number theory.

Scientific productivity

Writing of papers having an interest in the realm of mathematical analysis, probability and mathematical statistics, and suitable for publication in generalist or specialized journals at a national or international level

Head office

Department of Mathematics

Specific didactic activity of the contract

Teaching of courses having as a topic the basics of mathematics, in any degree program of the university, and of advanced courses of mathematical analysis, probability or mathematical statistics topic in the first degree and master programs in mathematics.”

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

Candidates may present a maximum number of 12

Selection code A_13

Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine

Admission Examination Sector 06/D5 - PSYCHIATRY

Disciplinary Scientific Sector MED/25 - PSYCHIATRY

Nr. of position available 1

Focus of research

The research will concern the field of psychiatry, including the topics of mental health, psychopathology, psychosomatic medicine, psychopharmacology, and the psychiatric aspects of clinical psychology; specific attention will be given to the physiological and molecular basis of mental functions in health and disease

Scientific productivity

To be the author of publications on peer-reviewed international scientific journals and presentations at scientific meetings.

Head office

Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine

Specific didactic activity of the contract

Frontal and integrative teachings related to psychiatry in the courses of the medical and psychological area.

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

Candidates may present a maximum number of 12

Selection code A_14

Department of Translational Research and of New Surgical and Medical Technologies

Admission Examination Sector 05/D1 - PHYSIOLOGY

Disciplinary Scientific Sector BIO/09 - PHYSIOLOGY

Nr. of position available 1

Focus of research

The area is focused on scientific and teaching activity in the field of the animal and human vital functions, including a comparative perspective. The area analyses how living organisms achieve and maintain the homeostasis of its internal medium at the molecular, cellular and tissue level, in the context of environmental influences. Considering the whole of the functional solutions, general physiological laws are formulated. The validity of such laws is tested in maximally complex models of vegetative and neural functions, in animal models, humans and other primates. The area studies the neurobiological and psychophysiological foundations of behaviour and cognitive and emotive interactions between the individual and the environment.

Scientific productivity

"High impact publication on international scientific journals"

Head office

Department of Translational Research and of New Surgical and Medical Technologies

Specific didactic activity of the contract

Physiology courses in the school of Medicine.

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

Candidates may present a maximum number of 12

Selection code A_15

Department of Translational Research and of New Surgical and Medical Technologies

Admission Examination Sector 06/A1 - MEDICAL GENETICS

Disciplinary Scientific Sector MED/03 - MEDICAL GENETICS

Nr. of position available 1

Focus of research

The research will be developed into the areas of the disciplinary field MED/ 03, in particular Medical Genetics and Molecular Genetics, with competence in genetics and epigenetics of complex diseases .

Scientific productivity

1. To be the author of publications on peer-reviewed international scientific journals. 2. Abstract submitted and accepted at national and international congresses

Head office

Department of Translational Research and of New Surgical and Medical Technologies

Specific didactic activity of the contract

Frontal and integrative teaching, tutoring and student service activities will be carried out in the context of the degree courses and residency programs of medical area as far as the scientific disciplinary sector MED/03 is concerned

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

Candidates may present a maximum number of 15

Selection code A_16

Department of Agricultural, Food and Agro-Environmental Sciences

Admission Examination Sector 07/E1 - AGRICULTURAL CHEMISTRY, AGRICULTURAL GENETICS AND PEDOLOGY

Disciplinary Scientific Sector AGR/13 - AGRICULTURAL CHEMISTRY

Nr. of position available 1

Focus of research

The research will be focused on the chemical, biochemical and physiological aspects of crop plants grown under optimal or stressful conditions, and their products, also during post-harvest storage.

Scientific productivity

Publication on national and international journals; attendance of national and international workshops; participation to national and international projects

Head office

Department of Agricultural, Food and Agro-Environmental Sciences

Specific didactic activity of the contract

Teaching activity in the SSD AGR/13 as part of the training courses provided by the Department of Agricultural, Food and Environment. The activity will consist of frontal lessons and exercises of agricultural biochemistry, didactic laboratory exercises. Supervised activities of undergraduates, PhD students and seminars are also expected.

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

Candidates may present a maximum number of 18

Selection code A_17

Department of Veterinary Sciences

Admission Examination Sector 07/G1 - ANIMAL SCIENCE AND TECHNOLOGY

Disciplinary Scientific Sector AGR/20 - AQUACULTURE, POULTRY AND RABBIT SCIENCE

Nr. of position available 1

Focus of research

The research activity will focus on the definition of production's systems, transformation and marketing of products derived from poultry, rabbit and aquatic species. In particular, products of rabbit and fish meat will be studied in order to improve their oxidative state

Scientific productivity

Publication of scientific papers in journals with IF and presentations at national and international conferences

Head office

Department of Veterinary Sciences

Specific didactic activity of the contract

The teaching activity will take place in Study Courses which include courses of the reference SSD, including the tutoring activity for the students.

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

Candidates may present a maximum number of 12