



UNIVERSITÀ DI PISA

Excerpt from the Rector's decree n. 768/2021

Call for the selection of 46 Senior Research Fellows

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

The University of Pisa announces a call for 46 Senior Fixed-Term Research Fellows for: **(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 Senior Research Fellow is required to perform lectures for a minimum of 48 up to a maximum of 96 hours per academic year, allocated as an institutional assignment for Bachelor's and Master's degree programmes, Specialization Schools and PhD programmes.

Contract duration: 3 years

Gross annual salary: € 43.612,84

Deadline for application: 26/07/2021, 1 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; 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;

Required qualifications:

to have been employed as a Fixed-Term Research Fellow for a three- year period already completed by the application's deadline; (Under the Italian Law 240/2010, article 24, subparagraph 3, point a)

or

to be a researcher, a scholar or a scientists holding the Italian National Certification for Full or Associate Professor (Under the Italian Law 240/2010 article 16);

or

to hold a Medical Specialty School qualification for the relevant medical fields;

or

to have had at least a three-year period of contracts, even when not consecutive and already completed by the application's deadline, performed with:

- research grants (under the Italian Law 449/97, art 51, subparagraph 6 or the Italian Law 240/2010 article 22 or comparable academic contracts abroad)
- post PhD grants (under the Italian Law 398/1989, article 4 or comparable academic contracts abroad)
- **contracts concluded in compliance with the Law no. 230 of 4 November 2005, art. 1, paragraph 14.**

Please note: the above-mentioned three-year period could aggregate: Fixed-Term Research Fellowship, post PhD research grants and fellowship in foreign Universities (under DM 662/2016).

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).
- Candidates who have relationship, kindred or affinity up to and including the fourth degree to any of the related department professors, or to the University's Rector, General Director and Administration Board members

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 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.

Selection Committee meetings for purposes other than qualifications and publications assessment may be held remotely, in whole or in part, using a video meeting platform, in compliance with the Regulation "Regolamento temporaneo per lo svolgimento delle sedute collegiali in modalità telematica" art. no. 2,3 and 4, referred to in the Rectoral Decree no. 491/2020 of 6 March 2020 and subsequent amendments, as well as with the Rectoral Decree no. 1099/2020 of 7 August 2020, art. 3.

Qualifications and publications assessment will be held "in-presence", pursuant to the Rectoral Decree no. 1099/2020 of 7 August 2020, art. 1, and in compliance with the "Safety Protocol against Covid19 Spread. Guidelines for in-presence Selection Procedures", issued by the Rectoral Decree no. 1011/2020 of 21 July 2020.

Candidates will be summoned by registered mail at least twenty days before the assessment of qualifications and publications; the failed attendance to the assessment interview will be considered as the candidate's voluntary and tacit waiver to the selection.

At least one member of the Selection Committee shall be present during the qualifications and publications assessment; the other Committee members can attend the selection procedure either "in-presence" or remotely, in compliance with the Regulation "Regolamento temporaneo per lo svolgimento delle sedute collegiali in modalità telematica".

In the event of "in-presence" selection procedures also attended remotely by one or more Committee member, it shall be specified that the session is held "in-presence", allowing however one or more Committee member to attend remotely and indicating the possible operating procedures for attendance; the selection minutes must include both the names of the members "in presence" and remotely connected, along with the operating platform used.

In order to ensure a limited access to the premises where the qualifications and publications assessment is carried out, auditors shall be allowed in (in compliance with the aforementioned Safety Protocol) only upon written request to be emailed at least two days before the selection procedure to concorsi_ricercatori@unipi.it. Live Streaming will be provided at <https://www.unipi.it/index.php/concorigare-e-bandi> (see the relevant section) to guarantee the publicity of the qualifications and publications assessment.

Upon the Selection Committee approval, candidates living abroad and therefore unable to attend the "in-presence" interview at the University of Pisa, will be interviewed via web, prior their identification by approved international universities or research centers. The Selection Committee is appointed to assure the duly examination of the candidates and shall collect their ID copy.

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

(2)

Selection code A_1

Department of Biology

Admission Examination Sector: 05/B1 - zoology and anthropology

Disciplinary Scientific Sector: BIO/08 - anthropology

Nr. of position available: **1**

Focus of research:

Following the official definition of the Disciplinary Scientific Sector BIO/08 (Anthropology) the researcher work will deal with the study of human evolution.

Scientific productivity:

The goal of the scientific production of the candidate will consist in publishing scientific articles on international journals, presenting research outcome to national and international scientific meetings, and participating to national and international research projects.

Head office:

Department of Biology

Specific didactic activity of the contract

The teaching activity will be carried out within the topics included in the BIO/08 sector. They will consist of frontal lectures e laboratory activities for students in agreement with the teaching planning needs. Moreover, the candidate will supervise undergraduate and graduate students.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_2

Department of Biology

Admission Examination Sector: 05/E1 Biochemistry

Disciplinary Scientific Sector: BIO/10 General Biochemistry

Nr. of position available: 1

Focus of research:

In agreement with the declaration of the disciplinary sector BIO/10 (Biochemistry), the research will deal with the study of the properties of proteins and of the molecular mechanisms involved in their regulation.

Scientific productivity:

Scientific production will consist in the publication of papers on scientific international peer-reviewed journals with IF, in the dissemination of research results by oral/poster communications at national and international meetings, and in scientific collaborations with national and international institutions

Head office:

Department of Biology

Specific didactic activity of the contract

The teaching activity will be held within courses belonging to the disciplinary sector BIO/10 and will consist in frontal lectures and laboratory activities according to the yearly teaching plan of the Department of Biology and of other Departments of the University of Pisa requiring competence specific of the BIO/10 sector. Teaching activity will also include the supervision of undergraduate and PhD students, and seminars for the "Biochemistry and Molecular Biology" PhD program

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

Candidates may present a maximum number of 15 scientific publications

Selection code A_3

Department of Biology

Admission Examination Sector: 05/A1 General Botany

Disciplinary Scientific Sector: BIO/01 Botany

Nr. of position available: 1

Focus of research:

Plant biology at all levels of organization, including autotrophic prokaryotes, algae and fungi, and their symbiosis. The reproductive mechanisms, the structural and functional organization and their evolution will be studied in order to establish their relationships and interpret their structures and functions in an evolutionary key. The studies will also analyze the ways in which cells and organs acquire the ability to perform specialized functions, highlighting the relationships between cytological, ultrastructural, histological, anatomical, morphological, organographic, physiological aspects and the role of secondary metabolites, framing them in the characteristics of the environment of development, as well as the molecular basis of plant development. Furthermore, the elaboration and application of the methods functional to pertinent investigations and the related biotechnological applications will be studied

Scientific productivity:

The goals will consist in publication of scientific articles in international journals, in the presentation of research results in conferences of national and international relevance, in participation in significant research projects

Head office:

Department of Biology

Specific didactic activity of the contract

Accomplishment of the teaching needs of the SSD BIO/01 (General Botany) in lectures and workshops in the three-year degrees and in the master's degrees provided by the Department of Biology. Supervision activities for undergraduates, doctoral students and post-docs are also provided, as well as scientific seminars

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

Candidates may present a maximum number of 15 scientific publications

Selection code A_4

Department of Chemistry and Industrial Chemistry

Admission Examination Sector: 03/C2 Industrial and applied chemistry

Disciplinary Scientific Sector: CHIM/04 Chimica industriale

Nr. of position available: **1**

Focus of research:

Research activity in the areas relevant to the declaration of SSDCHIM/04 with particular regard to the preparation and characterization of functional polymeric materials and their subsequent modification through advanced additive processes. The study and research objects are also devoted to all those methodologies relating to the manufacture of micro/nanocomposite materials and polymeric scaffolds obtained by implementing and optimizing innovative additive manufacturing techniques such as electrospinning and 3D printing

Scientific productivity:

Publications on scientific peer-reviewed international journals, communications to national and international scientific conferences

Head office:

Department of Chemistry and Industrial Chemistry

Specific didactic activity of the contract

Teaching courses that pertain to the discipline CHIM/04-Industrial Chemistry

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

Candidates may present a maximum number of 20 scientific publications

Selection code A_5

Department of Civilisations and Forms of Knowledge

Admission Examination: 11/D2 Methodologies of teaching, special education and educational research

Disciplinary Scientific Sector: M-PED/03 Methodologies of teaching and special education

Nr. of position available: 1

Focus of research:

The sector groups together applicative and pragmatic research concerning didactics, techniques and educational technologies both in the school and in the wider context of training. It also includes research on didactic forms applied to the handicap, to support and recovery activities, to insertion and integration and, in general, to the pedagogical treatment of difference

Scientific productivity:

Publications relating to the specific research sector: scientific monographs, articles in journals of recognized national and international value and contributions in volumes.

Participation in conferences and seminars also as speaker and /or organizer

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract

Course of "Didattica generale e Disturbi Specifici di Apprendimento at "Formazione primaria" – annual
Course of "Pedagogia speciale ed educazione inclusiva" at "Formazione primaria" – annual
Didactic collaboration in the courses established by the University for teacher training

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_6

Department of Civilisations and Forms of Knowledge

Admission Examination: 10/D1 Ancient history

Disciplinary Scientific Sector: L-ANT/02 Greek history

Nr. of position available: 1

Focus of research:

History and antiquities of the Greek world, starting from the earliest evidence until the end of antiquity, covering all Hellenized regions and the different fields of historiographical inquiry, mastering the proper research tools and methodology, especially epigraphy, critical interpretation of sources - with special respect to the historiographical ones – historical geography, social and economic history, as well as studies on the teaching techniques related to the transmission of the subject

Scientific productivity:

The successful candidate is expected to publish articles in national and international academic journals, in conference proceedings or collectaneous works, and monographs. She/He will organize and/or participate in conferences and research projects on a national and international level. She/He will submit scientific proposals in competitive calls on a national and international level

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract

Greek history courses at a B.A. and M.A. level (lectures and seminars)

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_7

Department of Civilisations and Forms of Knowledge

Admission Examination: 11/D1 Educational theories and history of educational theories

Disciplinary Scientific Sector: M-PED/01 Pedagogy, theories of education and social education

Nr. of position available: 1

Focus of research:

The sector includes two research areas that can be differentiated due to the immediacy of the application implications. The first one includes the area of theoretical-foundational and epistemological-methodological pedagogical research; in particular, it collects the skills that have a treatise and speculative tradition and that lay the theoretical and procedural foundations for pedagogical skills. The second research area is characterized by the attention to educational and training needs in society and organizations and by research on educational activities related to cultural and lifestyle changes and on the educational implications of new social and intercultural phenomena. It also includes lifelong and adult education.

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Scientific productivity:

Publications relating to the specific research sector: scientific monographs, articles in journals of recognized national and international value and contributions in volumes.

Participation in conferences and seminars also as speaker and /or organizer

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract

Courses at the Course of Studies in Scienze della formazione primaria

Didactic collaboration in the courses established by the University for teacher training

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_8

Department of Economics and Management

Admission Examination: 13/A1 Economics

Disciplinary Scientific Sector: SECS-P/01 Economics

Nr. of position available: **1**

Focus of research:

The issues included in the declaratory judgement of SSD SECS-P/01.

Scientific productivity:

Publications in prestigious journals and participation to national and international research projects

Head office:

Department of Economics and Management

Specific didactic activity of the contract

Courses mainly related to economics (SSD SECS-P/01) offered by Dipartimento di Economia e Management

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_9

Department of Economics and Management

Admission Examination: 13/D4 Applied economics

Disciplinary Scientific Sector: SECS-S/06 Applied economics

Nr. of position available: **1**

Focus of research:

The research activity will be devoted to the study of mathematical methods and tools for Economics, Social Sciences, Management, Decision Theory, Risk Theory, Market Analysis

Scientific productivity:

The scientific production will be devoted to the publication of research papers on widely distributed international journal, having a high impact factor and a high rating with respect to VQR and ANVUR as a whole.

Head office:

Department of Economics and Management

Specific didactic activity of the contract

The teaching activities will be devoted to courses where mathematical methods are aimed and used to study models in Economics, Finance, Actuarial Sciences, Management, Social Sciences. Specifically speaking, the activities will be related to basic courses on Calculus, advanced courses in mathematical methods for Economics and Management

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_10

Department of Pharmacy

Admission Examination: 03/C1 Organic chemistry

Disciplinary Scientific Sector: CHIM/06 Organic chemistry

Nr. of position available: 1

Focus of research:

The research activity will concern the topics of the scientific-disciplinary sector CHIM / 06 with particular regard to the development of efficient and environmentally friendly synthetic methodologies, also based on regio- and stereoselective approaches for the obtainment of organic compounds also biologically active, and bio-polymers, also in view of their possible applications

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 15 scientific publications

Selection code A_11

Department of Pharmacy

Admission Examination: 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 research activity will concern the topics of the scientific-disciplinary sector CHIM/08 with particular regard to 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 15 scientific publications

Selection code A_12

Department of Pharmacy

Admission Examination: 03/D2 Drug technology, socioeconomics and regulations

Disciplinary Scientific Sector: CHIM/09 Pharmaceutical and technological applications of chemistry

Nr. of position available: **1**

Focus of research:

The research activity will concern the topics of the scientific-disciplinary sector CHIM/09 with particular regard to the study of conventional and innovative dosage forms of medicines containing active ingredients of natural and synthetic origin and of products with a healthy value

Scientific productivity:

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

Head office:

Department of Pharmacy

Specific didactic activity of the contract

Courses in the field of the SSD CHIM/09 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 scientific publications

Selection code A_13

Department of Philology, Literature and Linguistics

Admission Examination: 10/M1 Germanic languages, literatures and cultures

Disciplinary Scientific Sector: L-FIL-LET/15 Germanic philology

Nr. of position available: **1**

Focus of research:

The cultural, literary, paleographic and linguistic analysis of the medieval Germanic texts (both in literature and epigraphy), with special regard to the (Old) German area, that shall be carried out according to the established philological methodologies. Part of the research assignments will be devoted to the reception and rewriting of the Germanic heritage in modern and contemporary literature

Scientific productivity:

Journal/volume publications in the relevant fields; participation in conferences and publication in the related proceedings

Head office:

Department of of Philology, Literature and Linguistics

Specific didactic activity of the contract

BA and MPhil degree courses; potential 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 12 scientific publications

Selection code A_14

Department of Philology, Literature and Linguistics

Admission Examination: 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 research will deal with the topics of the specific SSD L-LIN/01, i.e. theoretical studies on language faculty, history of linguistic thought and studies of historical linguistics, with reference to language change and methodologies of comparison and reconstruction; the study of linguistic variation, plurilingualism and linguistic contact, sociolinguistic and ethnolinguistic issue; moreover, in the context of applied linguistics, acoustic phonetics, morphosyntactic and lexicographic aspects; descriptive applications to languages and dialects, as well as psycholinguistics, linguistic pathologies, interactions between linguistics and computer science and problems of linguistics education; finally, the study of Baltic languages and related philology

Scientific productivity:

Publications in peer-reviewed journals at national and international level; publications in volumes and conference proceedings

Head office:

Department of Philology, Literature and Linguistics

Specific didactic activity of the contract

Didactic activities within BA degree courses and the Master degree course in Linguistics and Translation; collaboration to the doctoral seminars organized by the PhD Course in Linguistics and Foreign Literatures

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_15

Department of Philology, Literature and Linguistics

Admission Examination: 10/M1 Germanic languages, literatures and cultures

Disciplinary Scientific Sector: L-LIN/14 Language and translation - german

Nr. of position available: 1

Focus of research:

The research activity will concern the topics of the scientific-disciplinary sector L-LIN/14 with particular regard to the analysis and description of the German language at synchronic and diachronic level: phonetics, morphology, syntax, lexicon, textual and pragmatic structures; levels and registers of oral, written and sign communication; theory and praxis of written and oral translation in its various forms: literary and non-literary, generic and specialized, and multimedia applications

Scientific productivity:

Research productivity will include publications in international journals, applications for funding on specific projects as principal investigator for national or international bodies, presentation of the results of research at national and international conferences, initiation of scientific collaborations with national and international institutions

Head office:

Department of Philology, Literature and Linguistics

Specific didactic activity of the contract

Lessons and seminars in the three-year and master's German language courses, assistance with student activities, participation in exam boards

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_16

Department of Physics

Admission Examination: 02/B2 Theoretical physics of matter

Nr. of position available: 1

Focus of research:

Research activities in the fields of the academic discipline 02/B2

Scientific productivity:

Contributions beyond the state of art of the research in the field. Gaining of full scientific independence, possibly including the supervision of BSc, MSc, and PhD theses. Research papers in peer-reviewed, international journals. Dissemination of the results of the performed research in national and international conferences

Head office:

Department of Physics

Specific didactic activity of the contract

Courses on basic physics and specialist courses in physics of matter

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

Candidates may present a maximum number of 12 scientific publications

In the application, candidates should attach a summary of their previous research

Selection code A_17

Department of Physics

Admission Examination 02/D1 - Applied physics, physics teaching and history of physics

Disciplinary Scientific Sector FIS/07 – Applied physics

Nr. of position available: **1**

Focus of research:

Research activities in the fields of the academic discipline 02/D1, SSD FIS/07 “Applied Physics”, with particular regard to the study and development of physical methods for the description and rationalization of living matter in the environmental, biological, and medical framework, and for the development and use of instrumentation for control and detection of physical phenomena in the context of prevention, diagnosis and treatment, research in the field of environmental modelling, biophysics, physical techniques for biomedical diagnostics, as well as radiation protection of people, environment and objects

Scientific productivity:

Contributions beyond the state of art of the research in the field. Gaining of full scientific independence, possibly including the supervision of BSc, MSc, and PhD theses. Research papers in peer-reviewed, international journals. Dissemination of the results of the performed research in national and international conferences

Head office:

Department of Physics

Specific didactic activity of the contract

Courses on basic physics and specialist courses in applied physics

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

Candidates may present a maximum number of 12 scientific publications

In the application, candidates should attach a summary of their previous research

Selection code A_18

Department of Computer Science

Admission Examination: 01/B1 Informatics

Disciplinary Scientific Sector: INF/01 Informatics

Nr. of position available: **3**

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 scientific publications

Selection code A_19

Department of Civil and Industrial Engineering

Admission Examination: 08/B3 Structural engineering

Disciplinary Scientific Sector: ICAR/09 Structural engineering

Nr. of position available: **1**

Focus of research:

The research activity will concern the topics of the scientific-disciplinary sector ICAR/09 with particular regard to design and structural analysis, also eventually including experimental analysis, of civil constructions realized with the adoption of traditional and innovative materials, with specific attention to the development of possible solutions for the realization of steel and composite steel-concrete structures for seismic regions, also considering the possible application of innovative systems.

Analysis of the static safety and seismic vulnerability of reinforced concrete existing buildings; optimization of traditional techniques and/or development of innovative systems for the seismic retrofit, the safety assessment and seismic vulnerability evaluation of existing buildings with specific interest to both buildings and bridges or viaducts

Scientific productivity:

The scientific activity foresees the participation and the management and scientific coordination of research projects and collaboration at national and international level, funded by public or private bodies, the preparation of scientific papers for publication on international journals or for presentation during national and international Conferences

Head office:

Department of Civil and Industrial Engineering

Specific didactic activity of the contract

One of the teaching included in the Scientific and Disciplinary Sector SSD ICAR/09 (Structural Engineering) foreseen within the Civil Engineering and Construction Master Degree (Laurea Magistrale in Ingegneria Edile e delle Costruzioni Civili).

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_20

Department of Civil and Industrial Engineering

Admission Examination: 09/A2 Applied mechanics

Disciplinary Scientific Sector: ING-IND/13 Applied mechanics

Nr. of position available: **1**

Focus of research:

The research activity concerns the study of mechanical systems, machines and their components with the methodologies of theoretical, applied and experimental mechanics. The type of mechanical systems ranges from the automotive sector to biomechanical systems and orthopedic prostheses. In particular, vibratory, vibroacoustic and tribological phenomena are studied, combining theoretical-numerical and experimental modeling activities. In the field of tribology, the research focuses mainly on the description of wear, moving from experimental observations to the definition of a theoretical model and its implementation in computational codes, such as Matlab, and finite element codes (Ansys, Abaqus). This research aims to define multi-physical models in which it is possible to take into account the complex tribological behavior (friction, wear and lubrication) of the components in the effective working conditions to support the design process in fostering environmental and energy sustainability. Possible applications include orthopedic gears and prosthetics.

The activity in the field of vibration mechanics concerns the development of tools to monitor the correct functioning of machines and structures where modeling aspects are combined with experimental activities

Scientific productivity:

Scientific activities include the preparation of research articles for qualified international scientific journals, participation and management of national and / or international research projects and participation to conferences

Head office:

Department of Civil and Industrial Engineering

Specific didactic activity of the contract

Teaching and didactic activities related to the topics of the disciplinary field 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

Selection code A_21

Department of Civil and Industrial Engineering

Admission Examination: 09/G2 Bioengineering

Disciplinary Scientific Sector: ING-IND/34 Industrial bioengineering

Nr. of position available: 1

Focus of research:

The research activity will concern the topics of the scientific-disciplinary sector ING-IND/34 with particular regard to the study, design and functional evaluation of natural and artificial materials in order to develop bioactive implantable devices (scaffolds), aimed at the structural or functional replacement of organs or biological functions, with particular reference to cardiovascular tissues.

The analysis of the structure-properties relationship, typical of biomaterials, and the analysis of the biological-artificial interface characteristics will be the basis for the design, with "biomimetic" criteria, of innovative solutions for tissue engineering.

The research will be carried out using and developing: methods for the production of three-dimensional or injectable scaffolds from natural polymers, synthetic polymers and their combinations; functionalization strategies; techniques for the morphological, physicochemical, thermal, mechanical, functional and biological characterization.

Scientific productivity:

The scientific activity foresees the participation in national and international research projects funded by public or private bodies, the preparation of articles for qualified scientific journals and the participation in national and international conferences

Head office:

Department of Civil and Industrial Engineering

Specific didactic activity of the contract

The teaching commitment will consist in the SSD ING-IND/34 and related sectors in the degree courses and master's degree of the Pisa School of Engineering and of the University of Pisa; it can also include the involvement in postgraduate, master and postgraduate courses

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_22

Department of Civil and Industrial Engineering

Admission Examination: 09/A1 Aeronautical and aerospace engineering and naval architecture

Disciplinary Scientific Sector: ING-IND/06 Fluid dynamics

Nr. of position available: **1**

Focus of research:

The selected candidate is expected to carry out scientific research activities at international level, both at fundamental level and oriented towards the applications, in the themes peculiar to the SSD ING-IND/06. The research activities should be carried out through the synergic use of experimental methodologies and numerical simulations

Scientific productivity:

The scientific activity foresees the participation and the management and scientific coordination of research projects and collaboration at national and international level, funded by public or private bodies, the preparation of scientific papers for publication on international journals or for presentation during national and international Conferences. The scientific production must be coherent with the scope of SSD ING-IND/06

Head office:

Department of Civil and Industrial Engineering

Specific didactic activity of the contract

The teaching commitment will consist of bachelor and master courses in the SSD ING-IND/06 of the School of Engineering of Pisa, up to the completion of the teaching tasks as established by the University regulations; it may also include teaching in doctoral and post-graduate specialization courses

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_23

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination: 09/C2 Thermal sciences, energy technology, building physics and nuclear engineering

Disciplinary Scientific Sector: ING-IND/10 Thermal engineering and industrial energy systems

Nr. of position available: **1**

Focus of research:

Specific areas of Applied Thermodynamics and Heat Transfer, with reference to methodological analyses and experimental activities related to the energy performances of components and systems for civil and industrial applications

Scientific productivity:

The scientific activity involves direction or participation in research projects financed by public or private bodies, the preparation of scientific articles for prevalently international publications, both in journals and scientific conferences, and the possible filing of industrial patents. Scientific productivity must be consistent with that of the SSD ING-IND/10

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 teachings of the SSD ING-IND/10 and will consist of lectures and exercise activities for students, according to the needs of the teaching programs. This also includes tutoring activity in the preparation of undergraduate and doctoral theses. The total annual commitment for the activities of teaching, supplementary teaching and service to students must be consistent with that provided by the current legislation (as reported in the University of Pisa regulation

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_24

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination: 09/B3 Business and management engineering

Disciplinary Scientific Sector: ING-ING/35 Business and management engineering

Nr. of position available: **1**

Focus of research:

The domain of research includes issues of design of management processes, of organizations, of management systems and business operations (manufacturing, logistics, marketing, quality), economics and management of innovation, productivity analysis, management of Information and Communication Technologies (ICT), relationship with the market.

In general, the research domains is defined with respect to the topics included in the official description of the scientific sector ("Settore scientifico disciplinare", SSD) Management Engineering

Scientific productivity:

The scientific activity will result in participation to national and international research projects, publication of articles in international and indexed journals, presentation of paper to national and international scientific conferences. Scientific production must be consistent with the reference to the SSD ING-IND 35.

Head office:

Department of Energy, Systems, Territory, and Construction Engineering

Specific didactic activity of the contract

Basic and advanced courses within the scientific disciplinary sector ING-IND 35. Supervision of undergraduate and PhD dissertations. The total amount of time devoted to overall teaching activities is regulated by the University of Pisa

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_25

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination: 08/E2 – Conservation, Restoration and History of Architecture

Disciplinary Scientific Sector: ICAR/18 – History of Architecture

Nr. of position available: **1**

Focus of research:

The research activity will be focused on the topics of History of Architecture as they are detailed in the descriptive declaration of the Scientific-disciplinary sector ICAR/18, and specifically: the history of culture and activities related to the formation and transformation of the environment, in relation to the political, economic, social, and cultural framework in the various eras; historical topics concerning the specific aspects of these activities, from the representation of the architectural space to building techniques; the history of architectural thought and theories; the critical study of the architectural work, examined in its context with reference to the causes, programs and use, in its linguistic and technical modalities, in its constructed reality and meanings.

Scientific productivity:

The research activity, focused on the topics included in the descriptive declaration of the scientific-disciplinary sector ICAR/18, will be aimed at publication on national and international scientific journals and books, participation in national and international conferences, research cooperation with national and international agencies and institutions.

Head office:

Department of Energy, Systems, Territory, and Construction Engineering

Specific didactic activity of the contract

The teaching activity will be performed within the courses related to the Scientific-disciplinary sector ICAR/18, with reference to the topics included in its descriptive declaration, based on the departmental planning of teaching activities, according to the provisions of the University Regulations on the legal status of teaching.

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

Candidates may present a maximum number of 12 scientific publications

Selection Code A_26

Department of Information Engineering

Admission Examination: 09/F1 - Electromagnetic Fields

Disciplinary Scientific Sector: ING-INF/02 - Electromagnetic Fields

Nr. Of Position Available: **1**

Focus of Research:

Research Activities Focused On The Academic Discipline “ING-INF/02 – Electromagnetic Fields”, With Specific Reference To The Analysis And Design Of Microwave And Mm-Wave Antennas, For Mobile Communication Systems, Automotive Applications, Radio Frequency Identification Systems (RFID) And Wireless Power Transfer (WPT).

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 Activity In Courses Of The Academic Discipline “ING-INF/02 – Electromagnetic Fields”.
Management Of Teaching Activities And Projects.

Candidates Will Be Required To Demonstrate An Adequate Knowledge Of **English** Language

Candidates May Present A Maximum Number Of 15 Scientific Publications

Selection code A_27

Department of Information Engineering

Admission Examination: 09/F2 - Telecommunications

Disciplinary Scientific Sector: ING-INF/03 – Telecommunications

Nr. of position available: **1**

Focus of research:

Research Activities on the topics within area 09/F2 “TELECOMUNICAZIONI”, SSD ING-INF/03 “TELECOMUNICAZIONI”.

Scientific productivity:

Advances in the state of the art on the topics within area 09/F2 “TELECOMUNICAZIONI”, SSD ING-INF/03 “TELECOMUNICAZIONI”, documented by high quality publications in peer reviewed journals; capability of acquiring funds for scientific and technological research and development at the local, national, and international level

Head office:

Department of Information Engineering

Specific didactic activity of the contract

Basic and advanced courses within area 09/F2 “TELECOMUNICAZIONI”, SSD ING-INF/03 “TELECOMUNICAZIONI” regarding topics related to wireless communications

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_28

Department of Information Engineering

Admission Examination: 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 area ING-INF/05 – Information Processing Systems.

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 activity in courses of the scientific sector “ING-INF/05 – Information Processing Systems”.
Management of teaching activities and projects.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_29

Department of Information Engineering

Admission Examination: 09/G2 - Bioengineering

Disciplinary Scientific Sector: ING-INF/06 - Electronic and Informatics Bioengineering

Nr. of position available: **1**

Focus of research:

Research activities pertinent to the scientific discipline ING-INF/06- Electronics and Informatics Bioengineering.

Scientific productivity:

The candidate is expected to make significant advances in topics within the area 09/G2 documented by high quality peer-reviewed publications and participation in national and international research projects.

Head office:

Department of Information Engineering

Specific didactic activity of the contract

Courses within the area 09/G2 (SSD ING-INF/06) as foreseen by national regulations and on the basis of the University's needs regarding medical simulation within the programs of the School of Medicine.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_30

Department of Mathematics

Admission Examination: 01/A2 – Geometry and Algebra

Disciplinary Scientific Sector: MAT/03 - Geometry

Nr. of position available: **1**

Focus of research:

Properties and classification of geometric structures (topological, differential, real analytic and complex manifolds, algebraic varieties), including the combinatorial and computational techniques that can be applied to their study, as well as (general, algebraic and differential) topology, complex analysis and geometry, and the algebraic and geometric properties of dynamical systems.

Scientific productivity:

Publishing papers of interest in the realm of geometry in generalist or specialized journals at a national or international level. Seminars in Universities, Research Institutes and international or national Conferences.

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 geometry topic in the first degree, master and PhD programs in mathematics.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_31

Department of Mathematics

Admission Examination: 01/A4 - Mathematical Physics

Disciplinary Scientific Sector: MAT/07 - Mathematical Physics

Nr. of position available: **1**

Focus of research:

Performance of research of international interest and relevance having as a topic the study, from both a theoretical and an applied viewpoint, of mathematical physics, rational mechanics and dynamical systems, using both analytic and geometric techniques, together with the aspects relevant to mathematical physics of relativistic theories.

Scientific productivity:

Publishing papers of interest in the realm of mathematical physics in generalist or specialized journals at a national or international level. Seminars in Universities, Research Institutes and international or national Conferences.

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 physics topic in the first degree, master and PhD programs in mathematics.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_32

Department of Mathematics

Admission Examination: 01/A3 - Mathematical Analysis, Probability and Statistics

Disciplinary Scientific Sector: MAT/05 - Mathematical Analysis

Nr. of position available: 1

Focus of research:

Mathematical Analysis in all its aspects (harmonic, convex, functional, linear and nonlinear), Calculus of Variations, Function Theory (real and complex), and Analytic Number Theory

Scientific productivity:

Publishing papers of interest in the realm of mathematical analysis in generalist or specialized journals at a national or international level. Seminars in Universities, Research Institutes and international or national Conferences.

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 topic in the first degree, master and PhD programs in mathematics.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_33

Department of Mathematics

Admission Examination: 01/A5 - Numerical Analysis

Disciplinary Scientific Sector: MAT/08 - Numerical Analysis

Nr. of position available: **1**

Focus of research:

Study of the numerical analysis and of the computational techniques, also using computers and parallel calculus. More generally, study of all the computational aspects of mathematics.

Scientific productivity:

Publishing papers of interest in the realm of numerical analysis in generalist or specialized journals at a national or international level. Seminars in Universities, Research Institutes and international or national Conferences.

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 numerical analysis topic in the first degree, master and PhD programs in mathematics.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_34

Department of Clinical and Experimental Medicine

Admission Examination: 06/M1 - Hygiene, Public Health, Nursing and Medical Statistics

Disciplinary Scientific Sector: MED/01 - Medical Statistics

Nr. of position available: **1**

Focus of research:

The research activity will involve the application of statistical methods to clinical and experimental medicine and epidemiological studies.

Scientific productivity:

Publication of papers in *peer-reviewed* scientific journals

Head office:

Department of Clinical and Experimental Medicine

Specific didactic activity of the contract

Teaching activities in the University courses where Medical Statistics is part of the curriculum

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_35

Department of Translational Research and of New Surgical and Medical Technologies

Admission Examination: 06/A2 - Experimental Medicine, Pathophysiology and Clinical Pathology

Disciplinary Scientific Sector: MED/02 - Medical History

Nr. of position available: **1**

Focus of research:

Scientific activity in the field of paleopathology, history of medicine and medical museology, with particular reference to skeletal paleopathology, paleopathology of mummies and history of mummification practices; use of the techniques of restoration and conservation of anatomical findings

Scientific productivity:

Production of original scientific works for publication in international peer-reviewed journals; presentations at national and international conferences; development of multidisciplinary research projects

Head office:

Department of Translational Research and of New Surgical and Medical Technologies

Specific didactic activity of the contract

Teachings related to the SS MED/02 in the study courses of medical area where the sector is present

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

Candidates may present a maximum number of 14 scientific publications

Selection code A_36

Department of Translational Research and of New Surgical and Medical Technologies

Admission Examination: 06/A2 - Experimental Medicine, Pathophysiology and Clinical Pathology

Disciplinary Scientific Sector: MED/04 - Experimental Medicine and Pathophysiology

Nr. of position available: **1**

Focus of research:

Studies concerning the cellular pathophysiology, with special reference to aspects of inflammation and cancer progression

Scientific productivity:

Obtainment of high quality scientific results to be published in highly qualified international journals; participation in national and international congresses; possible compilation of patent applications

Head office:

Department of General Pathology, Medical School of the University of Pisa

Specific didactic activity of the contract

Teaching courses in General pathology for students attending Degree courses in the Medical area: Specialistic Degree (Medicine & Surgery, Odontostomatology) and/or Health Professions Degrees (3-year courses)

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_37

Department of Agricultural, Food and Agro-Environmental Sciences

Admission Examination: 07/D1 – Plant Pathology and Entomology

Disciplinary Scientific Sector: AGR/12 – Plant Pathology

Nr. of position available: **1**

Focus of research:

The successful candidate shall develop original research activity in the field of Plant Pathology (disciplinary sector AGR/12), to deal with innovative techniques with diseases of agricultural, forest and ornamental plants (also in the post-harvest phase) due to biotic pathogens and abiotic factors; mechanisms of plant/pathogen interactions; plant resistance to stresses; plant/pathogen/environment interactions; phytopathological diagnostics; plant protection; biological and integrated disease management; epidemiology of plant diseases; phytosanitary legislation; phytopathological biotechnologies; pollution of plant products and food by mycotoxins and residues of pesticides. Special attention will be devoted to reflectance spectroscopy: a novel approach to better understand and monitor the impact biotic and abiotic stresses on Mediterranean plants.

Scientific productivity:

To publish in national and international indexed journals; to attend national and international scientific events for dissemination of the research results. Scientific deliverables will have to be related to the reference sector AGR/12.

Head office:

Department of Agricultural, Food and Agro-Environmental Sciences

Specific didactic activity of the contract

Didactic work within the courses of Plant Pathology and related issues and involved in the course degrees of: Agricultural Sciences, SPES, and Viticulture and Oenology and/or in Agro-industrial productions and Agroecosystem management, Planning and Projecting of Urban Green and Landscape and Plant and Microbial Biotechnologies advanced degrees of the University of Pisa and ISVE (in collaboration with UniFI).

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

Candidates may present a maximum number of 20 scientific publications

Selection code A_38

Department of Agricultural, Food and Agro-Environmental Sciences

Admission Examination: 07/G1 – Animal Science and Technology

Disciplinary Scientific Sector: AGR/18 – Animal Nutrition and Feeding

Nr. of position available: **1**

Focus of research:

livestock nutrition and feeding; metabolic and digestive utilization of nutrients; physical, chemical and nutritional features of feeds; use of technologies and biotechnologies for improving animal performance, welfare and food quality; relationship between animal feeding and food quality and safety and environmental pollution

Scientific productivity:

Scientific papers published on indexed journals, participation to national and international congress

Head office:

Department of Agricultural, Food and Agro-Environmental Sciences

Specific didactic activity of the contract

Animal Nutrition and feeding (6 CFU) in the degree course “Agricultural Science”, assistant activities for the students in the other degree courses and master of science courses related to companion sectors.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_39

Department of Agricultural, Food and Agro-Environmental Sciences

Admission Examination: 07/E1 – Agricultural Chemistry, Agricultural Genetics and Pedology

Disciplinary Scientific Sector: AGR/07 – Agricultural Genetics

Nr. of position available: 1

Focus of research:

The research will focus on the structure, function, expression, heredity and evolution of genes and genomes, in procaryotes and eucaryotes of agricultural interest, in order to integrate experimental data with general rules and to set up strategies and methodologies of genetic, molecular and biotechnological procedures aimed at promoting proper agricultural activity, sustainable use of high quality agricultural and forestry products, and the diversification and exploitation of finished products.

Scientific productivity:

Scientific articles in international journals; participation to national and international congresses; participation to calls for national and international projects.

Head office:

Department of Agricultural, Food and Agro-Environmental Sciences

Specific didactic activity of the contract

Teaching activities in the italian language concerning the disciplines related to the SSD AGR/07, with particular reference to the use of bioinformatics in agricultural genetics, for students in the degree and master degree programs of the Department of Agriculture, Food and Environment.

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

Candidates may present a maximum number of 20 scientific publications

Selection code A_40

Department of Political Sciences

Admission Examination: 14/B2 - History of International Relations And of non-European Societies And Institutions

Disciplinary Scientific Sector: SPS/13 - African History and Institutions

Nr. of position available: 1

Focus of research:

The research activity will concern the topics of the scientific-disciplinary sector SPS/13 with particular regard to Islam, democracy and political governance in the Maghreb area.

Scientific productivity:

Participation in national and international conferences; monographs; edited volumes; chapters in collective volumes; articles in peer-reviewed journals.

Head office:

Department of Political Sciences

Specific didactic activity of the contract

History and Institutions of Afro-Asiatic countries; Geopolitical balances in Asia and Africa in the post-colonial era.

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

Candidates may present a maximum number of 20 scientific publications

Selection code A_41

Department of Political Sciences

Admission Examination: 14/C1 – General Sociology

Disciplinary Scientific Sector: SPS/07 - General Sociology

Nr. of position available: **1**

Focus of research:

The research activities will be related to General Sociology, such as methodology of social research and problems related to the relationship between theory and empirical research; theoretical perspectives of sociology; social policy connected to different types of welfare systems, analysis of social work models and methods, sociology of health

Scientific productivity:

Monographs and publications in the best national and international scientific journals on issues that are relevant for methodology of social research and general sociology

Head office:

Department of Political Sciences

Specific didactic activity of the contract

Teaching in General Sociology, Methodology of social research, Social Work; tutoring of students and undergraduates; being part of students' evaluation processes in the sociological disciplines within the Degree Programs.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_42

Department of Political Sciences

Admission Examination: 14/B1 - History of Political Thought And Institutions

Disciplinary Scientific Sector: SPS/03 - History of Political Institutions

Nr. of position available: 1

Focus of research:

The history of the constitutional structures and the main institutions of State, of their internal articulations, with particular attention to the evolution of constitutionalism and to the parliamentary history.

Scientific productivity:

Scientific publications in series and journals relevant to the Disciplinary Scientific Sector, national and international conferences attendance, organization of seminars on specific issues referring to the field of research

Head office:

Department of Political Sciences

Specific didactic activity of the contract

Teaching activity in Disciplinary scientific sector (SSD) SPS/ 03 courses programmed by the Scienze Politiche Department of the University of Pisa; tutoring to undergraduate and graduate students, evaluation procedures in the SSD SPS/ 03 courses held within the Department of Political Science.

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

Candidates may present a maximum number of 12 scientific publications

Selection code A_43

Department of Veterinary Sciences

Admission Examination: 07/H2 – Veterinary Pathology and Inspection of Foods of Animal

Disciplinary Scientific Sector: VET/04 – Inspection of Foods of Animal Origin

Nr. of position available: **1**

Focus of research:

The area of research is the inspection of animal origin food, with a specific focus on the fish sector and in particular on issues relating to traceability and species identification, products' safety and quality and frauds identification, also related to the globalization of the market

Scientific productivity:

Papers in journals with IF and presentations at national and international congresses, collaboration with national and international research groups.

Head office:

Department of Veterinary Sciences

Specific didactic activity of the contract

The candidate shall carry out theoretical and practical teaching activities for students in the following degrees and Specialization Schools: Veterinary Medicine, Food Biosafety and Quality, Post degree Specialization School of Inspection of Food of Animal Origin.

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

Candidates may present a maximum number of 15 scientific publications

Selection code A_44

Department of Veterinary Sciences

Admission Examination: 07/H1 – Veterinary Anatomy and Physiology

Disciplinary Scientific Sector: VET/01 – Veterinary Anatomy

Nr. of position available: 1

Focus of research:

Research activities included in this contract pertains to the study of morphology and biology of domestic animals, from the macroscopic to the molecular point of view; specifically, the activity will include the study of specific brain subcortical nuclei and the setup of skin ex vivo models. Immunohistochemistry, immunofluorescence will be used as well as other morphology-related techniques, supported by modern instruments and software for image analysis and data quantification.

Scientific productivity:

Manuscript publication on indexed international journals; participation to national and international congresses as speaker.

Head office:

Department of Veterinary Sciences

Specific didactic activity of the contract

The selected candidate will be involved in both theoretical and practical activities pertaining to the sector VET/01 – Domestic animal anatomy; Teaching activity will be performed within the degree courses of the Department of Veterinary sciences.

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

Candidates may present a maximum number of 12 scientific publications