



UNIVERSITÀ DI PISA

Excerpt from the Rector's decree n. 2310/2021

Call for the selection of 29 Senior Research Fellows

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

The University of Pisa announces a call for 29 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

Deadline for application: 14/02/2022, 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/concorsigare-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://alboufficiale.unipi.it/wp-content/uploads/2022/01/Bando-rtdb-29-posti-seconda-tranche-ALBO.pdf>

(1) If applicable

(2)

Selection code A_1

Department of Biology

Admission Examination Sector 05/B1 - Zoology and anthropology

Disciplinary Scientific Sector BIO/05 - Zoology

Nr. of position available: **1**

Focus of research:

The research activity will concern the study of protozoa and invertebrate metazoans, their evolution and biodiversity at the organization level of cells, organisms, populations, species, and community. Both theoretical and experimental research will be carried out in the field and in the laboratory and will address the study of morpho-functional organization, intra- and interspecific interactions and with the environment, biogeography, systematics and phylogeny of protozoa and invertebrates. In particular, the expected type of research will focus on theoretical and experimental studies preferably based on the use of modern investigation techniques

Scientific productivity:

The minimum scientific productivity goals of the candidate will consist in the publication of scientific papers on international journals with IF (1-3 articles/year), presentation of research results attending national and international scientific meetings and joining to national and international research projects

Head office:

Department of Biology

Specific didactic activity of the contract

The teaching activity will be carried out in the framework of courses including topics related to the BIO/05 sector and will consist of lectures and exercise/laboratory activities for students in agreement with both teaching planning needs and either recent (Prof. Franco Verni) or upcoming (Prof. Sergey I. Fokin) retirements. Furthermore, 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 Chemistry and Industrial Chemistry

Admission Examination Sector 03/A2 Models and methods for chemistry

Disciplinary Scientific Sector: CHIM/02 Physical chemistry

Nr. of position available: **1**

Focus of research:

Development and application of multiscale computational methods for the study of structural, energetic and dynamic properties of complex systems with particular reference to the integration of quantum mechanical methods and molecular dynamics techniques

Scientific productivity:

Publications on international peer-reviewed scientific journals, access to competitive research calls, dissemination of research results in national and international conferences, development of computational tools, attainment of a full scientific autonomy also through the supervision of Master and PhD students

Head office:

Department of Chemistry and Industrial Chemistry

Specific didactic activity of the contract

Courses in Physical Chemistry and related subjects

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 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: **1**

Focus of research:

Design, development of synthetic strategies, structural characterization, study of the reactivity and of the properties (in particular in the biological field) of molecular compounds based on transition metals

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 conferences

Head office:

Department of Chemistry and Industrial Chemistry

Specific didactic activity of the contract

Courses within the Corsi di Studio offered by the Department of Chemistry and Industrial Chemistry and other Departments of the University of Pisa, for which the expertise of the SSD CHIM/03 is required

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

Candidates may present a maximum number of 18 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 Industrial chemistry

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 synthesis and characterization of polymers and biopolymers through low environmental impact processes and for the enhancement of renewable raw materials also deriving from biotechnological processes. The study and research objects are also devoted to all those methodologies related to the preparation and subsequent modification through chemical approaches of polymers of natural origin in order to modulate the material's structure as a function of the final desired property. This is to obtain biocompatible and biodegradable functional polymeric materials from renewable resources for applications in the biomedical and pharmaceutical sectors

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 10/A1 Archaeology

Disciplinary Scientific Sector L-FIL-LET/01 Aegean civilizations

Nr. of position available: 1

Focus of research:

Studies of archaeological and historical character concerning Minoan-Mycenaean civilisation in the broader context of Mediterranean civilisations and, in particular, its relationships with the Greek world of the first millennium and the regions where the presence of Greek civilisation is attested or significant (Crete, the Cyclades, the Anatolian coast, the Syro-Palestinian coast, the Nile valley, southern Italy, etc.)

Scientific productivity:

Participation in Italian and international archaeological excavations and surveys and in multidisciplinary research projects with innovative methodologies, also in the role of research head and coordinator, scientific publications in national and international journals, presentation of research results in national and international conferences

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract

- Aegean Civilisations for the Bachelor's Degree in Cultural Heritage Studies.
- Minoan Archaeology, Mycenaean Archaeology, and Cypriot Antiquities for the Postgraduate Master's Degree in Archaeology Studies and Oriental Studies (Ancient Egypt, Near and Middle East)
- Aegean Civilisations for the Specialisation School in Archaeological Heritage

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 13/C1 Economic history

Disciplinary Scientific Sector SECS-P/12 Economic history

Nr. of position available: **1**

Focus of research:

Study and interpretation of training processes in the fields of the history of agriculture, business, work, population, finance, trade and transport. Mastery of the laws for understanding the variables in the economic systems of supply and demand for goods, price formation, market functioning, costs and allocation of production factors and the ability to interpret and evaluate the impact of choices on productive and social systems of the past and present, alongside the typicality of the historical methodology, also quantitative, based on the use of analytical tools deriving from the principles of statistics, econometrics, accounting, represent elements that lead to an exclusive approach to sources published and unpublished

Scientific productivity:

Publication of papers in national or international journals or a monograph. Participation in national and international conferences

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract

Economic history courses aimed at students of degree courses in History (three-year and master's), Sciences of peace and Philosophy and forms of knowledge (master's)

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 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_8

Department of Economics and Management

Admission Examination 13/B1 Business administration and accounting studies

Disciplinary Scientific Sector SECS-P/07 Business administration and accounting studies

Nr. of position available: **1**

Focus of research:

The issues included in the declaratory judgement of SSD SECS-P/07.

The sector includes scientific and teaching-training activities in the context of the study of the main organization constituents and of the factors contributing to the long- term economic development of companies, considering profit, non-profit organizations and public administrations, including healthcare organizations.

The sector of Business Administration includes two closely linked research fields: the studies of business administration, which involve theories of the firm and of business groups, strategies and business policies, analysis and design of business processes, business ethics, financial statements, business evaluation, auditing and consulting; the studies of Accounting which regard the evaluation, analysis and use of data to support decision and control processes, accounting and financial statements (including financial auditing and financial analysis), accounting for decision making (management accountants, planning and control), accounting history

Scientific productivity:

A monograph, contributions in volumes and articles published in qualified national and international journals in the field of business administration

Head office:

Department of Economics and Management

Specific didactic activity of the contract

Courses mainly related to the sector Business Economics (SSD SECS-P/07) offered by the 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/B2 Management

Disciplinary Scientific Sector SECS-P/08 Management

Nr. of position available: **1**

Focus of research:

The issues included in the declaratory judgement of SSD SECS-P/08

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 the “(Economia e gestione delle imprese” (SSD SECS-P/08)” sector, 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_10

Department of Economics and Management

Admission Examination 13/B3 Organization and human resource management

Disciplinary Scientific Sector SECS-P/10 Organization and human resource management

Nr. of position available: **1**

Focus of research:

The scope of the research will concern the topics contained in the declaration of the SSD-P/10: management of structures and systems related to the behavior of people in the organization of companies of any kind (profit, non-profit, industry, services, professions); the forms and the organizational mechanisms that realize the coordination between specialized units; the organization of strategies and the management of organizational change; the organization of work and operational processes for the production of goods and services; the roles and tasks of individuals and groups; the organization of information systems, their impact on individual and group behaviors and on the relationships between internal and external units; the management of human resources; the evolution of organizational structures and the conceptual tools developed to explain and predict their behavior and performance

Scientific productivity:

Scientific publications in national and international top journals in the fields of organization and human resource management

Head office:

Department of Economics and Management

Specific didactic activity of the contract

Teaching courses in the field of SSD-P/10 within the existing degree courses (Italian or English language)

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_11

Department of Philology, Literature and Linguistics

Admission Examination 10/L1 English and anglo-american languages, literatures and cultures

Disciplinary Scientific Sector L-LIN/11 Anglo-american languages and literatures

Nr. of position available: **1**

Focus of research:

The field of research will cover the topics of the L-LIN/11 scientific and disciplinary area. It will encompass studies of North-American culture and literature, based on the methodologies of philological, linguistic and literary research, specifically aimed at a critical comprehension through the analysis of original texts in their thematic, figurative and formal dimensions. Moreover, it will also comprehend the study of the grammatical features of Anglo-American English and of its teaching

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

Undergraduate and graduate degree courses; participation in the activities of the PhD programmes of 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_12

Department of Philology, Literature and Linguistics

Admission Examination 10/F1 Italian literature

Disciplinary Scientific Sector L-FIL-LET/10 Italian literature

Nr. of position available: **1**

Focus of research:

The field of research will concern the topics encompassed within the L-FIL LET/10 scientific disciplinary area, i.e. the study of literary works and cultures from the origins of the Italian language to the contemporary age and of their authors; the works in other languages written within the same historical-geographical context, with reference to the various literary modes and genres; to research methodologies; to the history of the discipline and that of criticism and poetics; to the linguistic and computer analysis of texts and corpora; to teaching techniques for the conveyance of disciplinary knowledge

Scientific productivity:

Peer-reviewed publications in qualified journals and series

Head office:

Department of Philology, Literature and Linguistics

Specific didactic activity of the contract

Didactic activity within undergraduate and graduate degree courses; collaboration to the activities of the PhD Course in Italian Studies

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_13

Department of Physics

Admission Examination 02/C1 Astronomy, astrophysics, earth and planetary physics

Disciplinary Scientific Sector FIS/05 Astronomy and astrophysics

Nr. of position available: **1**

Focus of research:

Research activities in the fields of the academic discipline 02/C1, SSD FIS/05 "Astronomy and astrophysics"

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 astronomy and astrophysics

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

Candidates may present a maximum number of 14 scientific publications

In the application, candidates should attach a summary of their previous research linked to the submitted publications

Selection code A_14

Department of Physics

Admission Examination: 02/A2 Theoretical physics of fundamental interactions

Nr. of position available: 1

Focus of research:

Research activities in the fields of the academic discipline 02/A2

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 theoretical 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_15

Department of Physics

Admission Examination 02/A1 Experimental physics of fundamental interactions

Nr. of position available: **1**

Focus of research:

Research activities in the fields of the academic discipline 02/A1

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 experimental physics of fundamental interactions

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_16

Department of Law

Admission Examination 12/H1 Roman and ancient law

Disciplinary Scientific Sector IUS/18 Roman and ancient law

Nr. of position available: **1**

Focus of research:

Legal framework of business activities in Roman law and Roman law tradition

Scientific productivity:

Publication of a book or papers and essays in peer-reviewed books and journals on the topic of the research

Head office:

Department of Law

Specific didactic activity of the contract

80% hours (to be waived up to 10%) of classroom teaching for each academic year, integrative teaching and services to students scheduled by periodic teaching programs related to SSD 1US/18

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_17

Department of Law

Admission Examination 12/F1 Civil procedural law

Disciplinary Scientific Sector IUS/15 Civil procedural law

Nr. of position available: **1**

Focus of research:

Civil procedure

Scientific productivity:

Monographic study in civil procedural law

Head office:

Department of Law

Specific didactic activity of the contract

Assistance, tutoring, lessons and exams

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_18

Department of Law

Admission Examination 12/A1 Private law

Disciplinary Scientific Sector IUS/01 Private law

Nr. of position available: **1**

Focus of research:

Research activity shall focus on studies relating to private law, governed by domestic, European and supranational norms, and by private regulation as well. It shall concern in particular the discipline of legal subjects, family, succession, property, liability law, law of contract and obligations, consumer and market law, internet law, the private law of information, communication, biolaw and advanced technologies in general.

Scientific productivity:

Publication of one book or at least 6 papers in legal journals of class "A" or international legal journals related to the scientific field "Private law". Submission of a national or international research project as principal investigator or coordinator of a research unit

Head office:

Department of Law

Specific didactic activity of the contract

Private law courses up to the maximum number of hours allowed by the advertised position. Tutorship and office hours

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 Computer Science

Admission Examination 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 scientific publications

Selection code A_20

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination 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 research activity will be focused on the topics of urban planning, as they are detailed in the descriptive declaration of the Scientific-disciplinary sector ICAR/20

Scientific productivity:

The research activity, focused on the topics included in the descriptive declaration of the Scientific-disciplinary sector ICAR/20, will be aimed at publication on national and international scientific journals, 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/20, 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_21

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination 09/B3 Business and management engineering

Disciplinary Scientific Sector ING-IND/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_22

Department of Information Engineering

Admission Examination 09/E3 Electronics

Disciplinary Scientific Sector ING-INF/01 Electronic engineering

Nr. Of Position Available: **1**

Focus of research:

Research activities related to the scientific area ING-INF/01 – Electronics

Scientific productivity:

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/01” – Electronics

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 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_24

Department of Mathematics

Admission Examination 01/A3 – Mathematical analysis, probability and statistics

Nr. of position available: 1

Focus of research:

All the branches of mathematical analysis, including harmonic, convex, functional, linear and nonlinear analysis; differential equations, calculus of variations and function theory; measure theory; probability theory and stochastic processes, including in particular the stochastic aspects of the theories of reliability, queueing, decision, games, and many-particle systems; stochastic processes and their applications, including the aspects related to many-particle systems; mathematical statistics and analytic number theory

Scientific productivity:

Publishing papers of interest in the realm of mathematical analysis and probability 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 or probability 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_25

Department of Clinical and Experimental Medicine

Admission Examination 05/f1 Experimental biology

Disciplinary Scientific Sector BIO/13 Experimental biology

Nr. of position available: **1**

Focus of research:

Research activity will be congruent with the area of interest of the academic discipline BIO/13 (Experimental Biology) in regard to the integrated study of the cell and to the basic mechanisms of expression, duplication, transmission and integrity maintenance of genetic information; cell development, differentiation and proliferation; biogenesis of organelles and cellular structures; cell-cell interaction. Biotechnological application of molecular genetics and cytogenetics to animals and cell lines in the process described above, will be relevant to the scientific profile

Scientific productivity:

Original research publications in international peer-review journals; oral presentations to scientific conferences; implementation and development of research projects; preparation and submission of national and international research grant proposals

Head office:

Department of Clinical and Experimental Medicine

Specific didactic activity of the contract

Teaching activity in degree courses and graduate schools in which the academic discipline BIO/13 is required

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 Surgical, Medical and Molecular Pathology and Critical Care Medicine

Admission Examination 05/E1 General biochemistry

Disciplinary Scientific Sector BIO/10 Biochemistry

Nr. Of Position Available: **1**

Focus of Research:

The research activity will be focused on the structure and properties of carbohydrates, lipids, proteins, and nucleic acids; molecular mechanisms and regulation of metabolism, enzyme catalysis, gene expression, signal transduction, intracellular and intercellular communication; molecular basis of cell function in prokaryotic, plant, animal and human cells, including cell growth, differentiation and apoptosis; enzymology; bioenergetics of motor and sport activities; biochemistry of environment and pollution; plant biochemistry; biochemical methods for identification, characterizations and analysis of biomolecules; structural molecular biology, crystallography, biophysics, computational biochemistry, and bioinformatics; industrial biochemistry, including drug and xenobiotics biochemistry; biotechnologies and recombination technologies with their applications in medicine, pharmacy, agriculture, veterinary, industry, and environmental sciences; biochemical basis of disease and nutrition; comparative biochemistry; cellular, tissue and organ biochemistry; systematic human biochemistry; comparative and veterinary biochemistry

Scientific Productivity:

Scientific publications (original studies and reviews) in indexed national and international journals, participation to meeting and webinars, participation to national and international collaborative research projects

Head Office:

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

Specific Didactic Activity of The Contract

Teachings related to biochemistry and molecular biology within the medical area

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_27

Department of Geosciences

Admission Examination 04/A1 Geochemistry, mineralogy, petrology, volcanology, earth resources and applications

Disciplinary Scientific Sector GEO/08 Geochemistry and volcanology

Nr. of position available: 1

Focus of research:

The scientific activity will concern: 1) Geochemistry: the study of the genesis, distribution and behavior of elements and nuclides in nature and their application in Earth Sciences, using the methods of chemistry and physics-chemistry. 2) Volcanology: the study of eruptive dynamics and its relationships with the processes of magmatic origin and evolution from both an experimental and a modeling point of view. The application of geochemical and volcanological approaches will be aimed at planning the exploitation of natural resources, including geothermal energy, at the control and quantification of soil, water and air pollution and the mitigation of natural risks

Scientific productivity:

Publication of scientific articles in international scientific journals with high impact factor; participation in national and international conferences, seminars and dissemination activities, development and management of geochemistry laboratories

Head office:

Department of Geosciences

Specific didactic activity of the contract

Courses within the SSD GEO/08 both in the field of teaching of geological sciences and environmental sciences

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 Political Sciences

Admission Examination 14/B2 History of international relations and of non-european societies and institutions

Disciplinary Scientific Sector SPS/06 History of international relations

Nr. of position available: **1**

Focus of research:

History of contemporary Europe and its process of integration, with an emphasis on cultural, educational, social and migration dimensions

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 of Transatlantic Relations; History of European Integration; EU History and Policies; History of European Mobility and Migrations; History of the Italian Foreign Policy

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_29

Department of Veterinary Sciences

Admission Examination 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 concern poultry, rabbit, aquatic and emerging species characterised by the short life cycle and the industrialisation of the production, transformation and marketing processes of products. In particular attention will be focused on products based on rabbit meat, poultry and aquatic species improving the oxidative state and the production of emerging species with low environmental impact

Scientific productivity:

Publication of scientific papers in journals with IF and presentations at national and international conferences. Ability to acquire funding for scientific and technological development at local, national and international level

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 16 scientific publications