

DIREZIONE DEL PERSONALE
Dirigente:Dott. Ascenzo Farenti

UNITA' PROGRAMMAZIONE E RECLUTAMENTO DEL PERSONALE
Responsabile: Dott.ssa Laura Tangheroni

Selection procedure for the position of no. 35 researchers with a fixed term contact under article 24, comma 3, lett. a) of the Law 240/2010.

Code RIC2016a1

THE CHANCELLOR

On the basis of the following:

- The Statute of the University of Pisa, issued by a decree from the chancellor on 30 September 1994, no. 196 and subsequent modifications;
- The Law of 30 December 2010, no. 240, in particular art. 24;
- The Ministerial Decree on Education, University and Research of 24 May 2011, no. 242;
- The Ministerial Decree on Education, University and Research of 25 May 2011, no. 243, criteria and parameters for preliminary assessment of public procedure selection candidates for contracts under article 24, comma 2, letter c) of the Law December 30 2010, no. 240;
- The University regulations regarding research grants with a fixed term contract under art. 24 of the Law 240/2010, issued with Regional Decree no. 8444 on 29 June 2011 as amended;
- Ministerial Decree 30 October 2015, no. 885, bearing: Determination of Admissions Examination Sectors, re-grouped into macro-sectors;
- The resolution no. 212 of 14 July 2016 by which the Administration Committee has approved, the allocation between the Departments and the assignment to the competition areas of no. 35 positions for full time researchers on a fixed term contract, according to art. 24, paragraph 3, letter. a) of the law no. 240/2010;
- the authorization issued by the Azienda Ospedaliera Universitaria Pisana in favour of the welfare performances planned for the following fields:

- 06/B1 Internal medicine - SSD MED/09 Internal medicine;
- 05/G1 Pharmacology, clinical pharmacology and pharmacognosy - SSD BIO/14 Pharmacology;
- 06/G1 Paediatrics and child neuropsychiatry - SSD MED/39 Child neuropsychiatry
- 11/E1 General psychology, psychobiology and psychometrics - SSD M-PSI/01 General psychology;

DECLARES

Art. 1 Admissions Examination Procedures

Under art. 24, comma 3, lett. a) of the Law 240/2010 and University Regulations for the position of researchers on a fixed-term contract under art. 24 of the Law 240/2010, the selection procedure for the position of no. 35 full time researchers on a fixed-term contract (denominated as 'Junior' contract) listed in Annex A

Art. 2
Admission requirements for selection

For selection, candidates (also those who are citizens not belonging to the European Union) are admitted to participate if they are in possession of the following:

- PhD or equivalent qualification, received in Italy or abroad;
- Qualification certificate in medical specialization for the sectors concerned. In such a case the PhD or equivalent qualification would be preferred.

Candidates not admitted for selection are Full or Associated University professors and presently employed research fellows on a permanent contract (even though the latter has lapsed due to retirement).

Furthermore candidates will not be admitted who have had contracts as salaried researchers and fixed-term research contracts under articles 22 and 24 or the Law 240/2010 at the University of Pisa or other Italian Universities, be they state, non-state or computerized as well as bodies under comma 1 of art. 22 of the Law 240/2010 for a period which, in summation of the duration provided by the contract, placed for public announcement, exceeds comprehensively the 12 years (even though non continuative). With the aims of the duration of the aforesaid contract periods of maternity leave or health problems are not observed under the present norms.

Art. 3
Applications for admission

Applications for comparative selection, will be produced, on pain of exclusion, within the final date of 30 days starting on the day following the publication of the extract of this notice in the Gazzetta Ufficiale.

The application should be addressed to

MAGNIFICO RETTORE
UNIVERSITA' DI PISA
LUNGARNO PACINOTTI, 43
56126 PISA
Selection code RIC2016a1

Applications will be accepted if they are sent by registered post with return receipt before the deadline indicated. The stamp of the accepting post office shall be considered proof.

Applications may be presented directly to the "Università Unità Protocollo", Lungarno Pacinotti, 43, Pisa during the following times:

from Monday to Friday: 9:00 am – 1:00 pm

Tuesday and Thursday: 3:00 pm – 5:00 pm

In the application (see attachment B to be filled out) the candidate must declare, under his/her own responsibility, the following:

1. Selection code (Annex A);
2. Personal details, date and place of birth, residency;
3. Admission Examination Sector and the Disciplinary Scientific Sector;
4. The department;
5. An address for receiving communication relating to the present document: address with postal code, telephone number, e-mail address;
6. Insurance number or Italian fiscal code number;
7. Citizenship;
8. The educational qualifications for admission (the title obtained abroad must be attached and translated into Italian or English)
9. The enjoyment of civil and political rights in Italy or in the country of origin;

10. To not be in possession of a criminal record or convictions, indicating details of the sentences and criminal procedures pending;
11. Medical fitness necessary for the position;
12. Only for male Italian citizens: position regarding military obligations;
13. To not have been dismissed or retired from a Public Administration Body for persistent insufficient production of work; or to not have been declared decreased by a state employee under art. 127 of the "Testo Unico" of dispositions concerning the statute of civilian employees of the state;
14. To not presently hold the status or not have previously held the status of full professor or associate professor or of a permanent university research fellow;
15. To not have exceeded comprehensively twelve years, (even non-continuously) including the set period of the present contract as a salaried research fellow or fixed-term contract researcher under articles 22 and 24 of the Law 240/2010 at the University of Pisa or at other Italian state or non-state or computational Universities respectively; as well as at bodies referred to under comma 1, of article 22 of the Law 240/2010;
16. To be aware that he/she cannot proceed to the stipulation of the contract if he/she is related by birth or has affinity (up to 4th grade) or marriage with a professor belonging to the department or to the structure that proposes the activation of the contract; or with the Chancellor, the General Director or any component member of the University Administration Governing Board.
17. to authorize the University of Pisa to the processing of their personal data as provided by art. 14 of the announcement.

Any lack in the application forms of declarations of which in the preceding points would result in exclusion of the selective process, an exclusion is made, only for foreign citizens, for the missing inclusion of Italian fiscal code.

The candidate's signature below the application form is not subject to authentication.

Any eventual variation of what is declared in the application form must be hastily communicated to the University. The University assumes no responsibility for loss of mail due to any incorrect addressing by candidates including lost or tardy communication of variation; or for any problems relating to the post office or telegram service; or problems due to third parties or any unforeseeable circumstances.

Art. 4

Documents to be attached

The following need be attached to the application forms:

- a.) C.V. of scientific and teaching activity of the candidate duly self-certified using attachment C of the present document.
- b.) Qualifications the candidate holds to be valid for the selection process and which will be presented according to art. 5 with the relative list.
- c) publications that the candidate plans to submit by the panel, including the doctoral thesis, with its list;
- d) a list of all publications.

Furthermore a photocopy of Italian fiscal code and a document of identity are required.

Both the C.V., qualification list and publication list should be dated and signed by the candidate.

Art. 5

Presentation of qualifications and publications

Qualifications should be issued on plain paper.

Candidates may also demonstrate possession of aforementioned qualifications through the form of autocertification by attaching the declaration in substitution of certification under art. 46 of the D.P.R. 445/2000 by filling out attachment C.

Qualifications should be either the originals or in authenticated copies by utilizing the declaration in substitution of a notarized act under art. 47 of D.P.R. (President of Republic Decree), 28/12/2000, no. 445, by filling out attachment D.

Non E.U. Citizen candidates resident in Italy can use sworn declarations with limit in cases of proving conditions, facts and personal qualities certifiable or attestable from public or private Italian subjects under article 3, comma 2, of the Italian President of the Republic Decree of 28 December 2000, no. 445.

Certificates released by the competent foreign state authorities must be in accordance with the provisions in force in the same state and must also be legalized by the competent Italian consular authorities.

The Administration reserves the right to proceed with necessary controls on the veracity of the contents in the sworn affidavits.

Referral to documents or publications presented at this or other administration offices or to documents attached to other applications for another selection procedure is not consented.

Publications candidates intend to rely on for selection procedure, allowing for the maximum number indicated in the present document, must be presented together with their application and documents according to art. 4.

In the envelope containing the application and the relative qualifications as well as the publications) the following should be written: "Domanda titoli e pubblicazioni : procedura di selezione per contratto a tempo determinato," and the following must be clearly indicated: selection code, indication of disciplinary scientific sector, the department for which the candidate intends to apply; as well as surname, name and address of the candidate.

Candidates may present their publications in their original form or as authenticated copies or photocopies by utilizing the declaration in substitution of a notarized act in attachment D.

Works printed abroad must bear the date and place of publications.

For works printed in Italy up until 01/09/2006 the obligations set out in art. 1 of the Vice-Regal Legislative Decree of 31 August 1945, no. 660 and later again in those set out by the Law of 15 April 2006, no. 106 and from the D.P.R. of 3 May 2006, no. 252 must be met.

Publications or texts accepted for publication according to the norms in force are considered assessable exclusively for the aims of the present selection; as well as essays inserted in collective works and articles edited in journals in paper or digital form, with the exclusion of internal notes or departmental reports, as well as doctoral theses or equivalent/equipollent qualification titles.

Art. 6 Exclusion from selection

Exclusion of participation in the procedure due to lack of requirements according to article 3 is set out with executive provision and notified to the candidate.

Art. 7 The Panel and selection procedure

The panel, nominated via a decree by the Chancellor consists of at least three members from the structure prospering the contract.

The panel must conclude its work before four months of the nominal decree. The Chancellor, for proven and exceptional reasons noted by the president of the panel, may postpone the conclusion of the panel's work only one time and for no longer than two months.

In the first sitting the panel establishes the criteria and modality of candidate's assessment according to the

parameters set out by the ministerial decree of 25 May 2011, no. 243, as well as marks to be attributed to qualifications and publications.

Selection is carried out by a preliminary evaluation of the candidates with motivated analytic judgment on their qualifications, CV and on their scientific production, including their doctoral theses.

Following preliminary evaluation the comparatively more meritorious candidates, between 10 and 20 percent of the original number (and no less than 6 in number) are admitted for an interview on the basis of their qualifications and scientific position. All candidates will be admitted for the interview if their total number is equal to or less than 6.

Candidates will be notified via registered post with return receipt 20 days before the interview if they are to attend based on their qualifications and publications. The lack of presence at the interview will be considered an explicit and definitive manifestation of the candidate's voluntary wish to renounce taking part in the selection procedure.

During the interview on the candidates' qualifications and publication there will be an oral examination to assess the candidates' language levels as indicated in this document.

Following the interview a marking system will be attributed to the qualifications and to each publication presented by the successful candidates. For assessment of qualifications and publications the panel can ask for the aid of referees as established in the first meeting.

When the results of the selection procedure have been concluded, based on a comprehensive point system, the panel will set out a list of scores designating the winner or declaring the absence of any winners.

The panel will carry out a motivated assessment followed by a comparative evaluation, referring to the specific Admission Examination sector and to the profile defined via indication of one or more disciplinary-scientific sectors, C.V. and the following properly documented qualifications of the candidates:

- a.) PhD or equivalent, or , for the interested sectors, a certificate of medical specialization or equivalent awarded in Italy or abroad;
- b.) Any university teaching activity in Italy or abroad;
- c.) Documented training or internship activity or research at established Italian or foreign institutes;
- d.) Documented clinical activity relating to the Admission Examination Sector requesting such competences;
- e.) Experience of project activity as stated in the Admission Examination Sector's requirements.
- f.) Organization, management and coordination of national or international research groups or participation in the above;
- g.) Patent titles as stated in the Admission Examination Sector's requirements.
- h.) Speaker at national or international congresses or conventions;
- i.) National or international prizes or recognition for research;
- j.) European certificate of specialization recognized by international boards as stated in the Admission Examination Sector's requirements;

Assessment of each qualification indicated by comma 1 is effected by considering specifically the significance the latter has in order of quality and quantity of the research activity carried out by the single candidate.

The panel will effect comparative assessment of the publications on the basis of the following criteria:

- a.) Originality, innovation, rigorous methodology and relevance of each scientific publication;
- b.) Congruence of each publication with the Admission Examination Sector for which the selection procedure is effected and with any profile, defined exclusively via indication of one or more disciplinary-scientific sectors, or with interdisciplinary themes correlated to the latter;
- c.) Scientific relevance of editorial collocation of each publication and its circulation within the scientific community;
- d.) Analytic determination, also on the basis of recognized criteria in the referred international scientific community, of individual bearing of the candidate in case of participation in collaboration work;

The panel must also evaluate the consistent complexity of the candidate's scientific production, the intensity and

temporal continuity of the same (subject to periods adequately documented of non-voluntary distancing from the research activity) with particular attention to parenting functions.

In the arena of the Admission Examination Sector wherein international standards are used for assessing publications, the following indicators are used (referring to the candidate deadline dates):

- a.) Total number of citations;
- b.) Average number of citations per publication;
- c.) Total impact factor
- d.) Average impact factor per publication;
- e.) Combination of previous parameters for assessing the impact of the candidate's scientific production (Hirsch index or similar).

Art. 8 Validation of the acts

The procedural acts are consigned from the panel to the procedure authorities.

The Chancellor, within thirty days of notification, shall attest with his own decree the formal validity of the acts and the result of the procedure, which will be rendered public via publication on the official University register and on the University web site. The proposition of any appeals to the selector's decision and their terms will be given on the date the register is issued with the result.

In the case where evidence of faults occur the Chancellor will re-send, with motivated provision, the acts to the panel until they comply with regulations within the following twenty days.

Art. 9 Call proposal

The department will communicate the winner within 60 days of validation of the acts.

The deliberation is valid if approved by an absolute majority favourable vote of the full and associate professors afferent to the structure.

Non adoption of the deliberation call, within the deadline under comma 1, will result in the impossibility of the structure invoking this document, to request a new selection procedure for the same sector for a period of one year.

The deliberation containing the call proposal is subject to approval of the Administration Governing Board.

In the case whereby the winner renounces the position before the signing of the contract the department can proceed to a new call taken from the score list of candidates.

Art. 10 Work relation

The successful candidate will engage in a working relation with the University of Pisa for a fixed-term contract via the stipulation of a private subordinate contract undersigned by the Chancellor and regulated by the University Regulations for the employment of research post graduates on a fixed-term contract under art. 24 of the Law 240/2010 cited in the introduction of this document and published on the University of Pisa website.

Disciplinary competence is regulated by art. 10 of the Law 240/2010.

The successful candidate must present, according to the stipulation of the individual contract of work, all the documentation requested under the norms in force for the engagement of a working relation on a fixed-term contract, for research.

The contract is subject to all obligations set out for the remaining work relations stipulated with the University of Pisa.

The regime of incompatibility and the effectation of other positions is regulated by art. 14 of the above cited University Regulations for the employment of research post graduates on a fixed-term contract under art. 24 of the Law 240/2010.

The contracts are conferred in accordance with the Ethical Code of the University. They cannot, in any way, be given to those who are related by birth or have affinity (up to the 4th grade) or marriage with a professor belonging to the structure from which the sum is assigned.

The applicant must be in possession of the requirements for gaining admission to the selection process at the termination date of the present application.

Art. 11 Postponement of contract

The contract may be postponed for only two years and only once, after a positive evaluation of the teaching and research activities, on the basis of methods, criteria and parameters defined by the Minister.

Art. 12 Salary

The salary stipulated in the wording of the contract is equal to 34.898,06 Euro I.d.. including a “thirteenth month” end-of-year bonus, for the entire duration of the contract, corresponding to the expected salary of the post graduate researcher (confirmed as class 0) on a full time contract.

Inflation and career index-linked pay adjustments are not applied to fixed-term post graduate researchers.

Art. 13 Return of documentation

At the end of the selection procedure, elapsing 60 days after the publication of the Chancellor's decree (validating the acts) in the official University Register, the University shall return to those applicants, who specifically so requested, their original documents attached to their application forms unless there be any legal acts binding. The documents must be collected by the applicant within 30 days of the expiry of the stipulated termination date. Beyond this date the University is no longer responsible for the keeping and returning of the above documentation.

Art. 14 Protection of personal data

The protection of personal data is subject to the “Protection of personal data” legislative decree of 30 June 2003, no. 196 published in the Official Register of 29 July 2003, general series no. 174, ordinary supplement no. 123 L.

Any data provided by applicants will only be used for the purposes of the present announcement.

Such data must be provided for the requisites for participation. If they are not so provided the applicant shall be disqualified.

Applicants enjoy the right of the above cited law, including the right to access any data that regards them, and also have the right to rectify, update, complete or delete any erroneous and incomplete data; or any data collected under terms not conforming with the law.

Art. 15

Person in charge of the proceedings.

In accordance with the article 5 of Law no. 241 of 7 August 1990, the person in charge of the present announcement is Dott.ssa Laura Tangheroni, Teaching and Technical Staff Recruitment Office – University of Pisa – Lungarno Pacinotti 43/44 – Pisa — fax: 050/2210661 – e-mail: concorsi@adm.unipi.it

Art. 16

Publication

The present decree is published in the Official Register, special IV series “Admission examinations”.

Selection code A_1

Department of Biology

Admission Examination Sector: **05/E2 Molecular biology**

Disciplinary Scientific Sector: **BIO/11 Molecular biology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research activity will be focused on the molecular mechanisms underlying cell behaviour and migration in response to exogenous stimulation or pathological conditions and during embryo development. Within this field, he/she will employ technologies of molecular biology and nanobiology, exploiting nanoparticles functionalized with biomolecules. For the purposes of the research, he/she will take advantage of cell and animal models (e.g. cultured cells and *Xenopus* and zebrafish embryos)

Scientific productivity:

Scientific production will consist in the publication of papers on scientific international journals with IF and in the dissemination of research results by oral/poster communications at National and International Meetings. Participation to National and International research projects will also be a major objective. Patents will be possible important scientific acquisitions

Head office:

Department of Biology

Specific didactic activity of the contract:

The teaching activity will be fulfilled within the courses of the BIO-11 sector and will consist in frontal lectures and practical lab exercises, according to the Departmental yearly teaching plan. Other teaching duties will be the supervision of undergraduate and PhD students, as well as seminars for PhD programme

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: **05/11 Genetics and microbiology**

Disciplinary Scientific Sector: **BIO/18 Genetics**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research activity will be focused on the study of the mapping of genes in random cross populations and genetic mechanisms underlying gene regulation and function and cellular behavior. Within these research activities methods of genotyping and/or gene expression on a large scale or at genome-wide level as well as linkage disequilibrium studies for fine mapping will be used. In silico and in vitro analyses on human cells will be used and human populations will be also object of investigation

Scientific productivity:

The research activity will be documented by scientific publications in international peer-reviewed journals and by the attendance as speaker or poster presenter to national and international meetings where the candidate will be able to discuss the results of his/her research

Head office:

Department of Biology

Specific didactic activity of the contract:

Teaching, supplementary teaching, student services and laboratory support in the field of Genetics (BIO/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_3

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**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Theoretical and computational study based on quantum chemical techniques of reactivity and spectroscopies in condensed phase, biological systems, and materials. Development of theoretical models and of the related scientific software

Scientific productivity:

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

Head office:

Department of Chemistry and Industrial Chemistry

Specific didactic activity of the contract:

Classes pertinent to the scientific 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_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**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Optimization of industrial catalytic processes

Scientific productivity:

Scientific publications, filling of patents, participations and presentations in meetings

Head office:

Department of Chemistry and Industrial Chemistry.

Specific didactic activity of the contract:

Teaching courses in Industrial Chemistry Principles, Industrial Processes and Applied Catalysis, such as Educational Scheduling

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_5

Department of Civilisations and Forms of Knowledge

Admission Examination Sector: **10/C1 Cinema, music, performing arts, television and media studies**

Disciplinary Scientific Sector: **L-ART/06 Cinema, photography and television**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research will focus on the international video art: trends, authors, genres, with particular attention to the audiovisual context, the multimedia scene and the dialogue with other arts

Scientific productivity:

Scientific publications, participation and paper presentations in scientific meetings

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract:

Considering the teaching engagement expected for a researcher, and the teaching planning, courses in the Scientific Disciplinary Sector L-ART / 06 on the topics of video art and audiovisual experimentation, art and multimedia, the dialogue between cinema and the arts. Support and assistance to students and undergraduates for the teachings of Scientific Disciplinary Sector L-ART / 06

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 Sector: **10/B1 Glottology and linguistics**

Disciplinary Scientific Sector: **L-ART/01 History of medieval art**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The arts of the late Middle Ages in Tuscany, with particular regard to sculpture

Scientific productivity:

Scientific publications; participation and paper presentation at scientific conferences

Head office:

Department of Civilisations and Forms of Knowledge

Specific didactic activity of the contract:

Courses on medieval art history for Bachelor's and post graduate Master's degrees

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 Sector: **13/D1 Statistics**

Disciplinary Scientific Sector: **SECS-S/01 Statistics**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Statistical methods for small area estimation, methods and models for local studies on poverty and the measure of living conditions, survey methods to collect and analyse data and estimate indicators to evaluating policies, statistics for policy evaluation

Scientific productivity:

Publication of at least 1 paper on a scientific journal of Class A ANVUR (Area 13), participation in at least 2 international conferences presenting contributions on the topics of the research

Head office:

Department of Economics and Management

Specific didactic activity of the contract:

Teaching activity and tutoring to the students of the courses of the scientific sector Statistics (Settore concorsuale 13 D/1 "STATISTICA" SSD -SECS-S/01 "STATISTICA") and/or the alike sectors, offered by the Department of Economics and Management and by the degree programmes in Management and Law of Logistics Systems

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 Sector: **13/B1 Business administration**

Disciplinary Scientific Sector: **SECS-P/07 Business administration**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Management Control, Management Information Systems, performance measurement, intellectual capital

Scientific productivity:

One monograph and three articles in qualified management control journal

Head office:

Department of Economics and Management

Specific didactic activity of the contract:

Performance measurement and evaluation, management information systems

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 Pharmacy

Admission Examination Sector: **05/D1 Physiology**

Disciplinary Scientific Sector: **BIO/09 Physiology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research activity of the candidate should focus on Neurophysiology and more specifically on morpho-functional studies of retinal neurons in normal conditions and disease (Retinitis Pigmentosa and Diabetic Retinopathy).

The successful candidate should carry out research activities that require methodological skills ranging from morphological techniques, such as immunohistochemistry and confocal microscopy as well as in-vivo electrophysiological methods, mainly Electroretinogram (ERG)

Scientific productivity:

The objectives of the research shall be the publication of scientific articles on International journals (1-3 articles on journals with IF), the attendance to national and international meetings and the participation to national and international research projects

Head office:

Department of Pharmacy

Specific didactic activity of the contract:

The successful candidate is expected to do her/his teaching activity in the area 05/D1 (Physiology). Specifically, the activity will entail oral classes along with lab practical. Furthermore, the teaching duties include supervision and mentorship of students preparing their graduation dissertation

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 Sector: **05/G1 Pharmacology, clinical pharmacology and pharmacognosy**

Disciplinary Scientific Sector: **BIO/14 Pharmacology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The researcher will have responsibilities in the design and coordination of laboratory activities related to the research and testing of new potential therapeutic and diagnostic biotechnological agents in oncology, particularly in cutaneous melanoma. It is required the acquisition of experience in the field of the selection and production of human monoclonal antibodies / antibody fragments with advanced techniques, as well as in the field of therapeutic nucleic acids and in the investigation on oncolytic virus.

Scientific productivity:

The candidate will have as its main objective the publishing of scientific papers in international journals with impact factor and in books, on topics related to the aforementioned research fields. Second objective will be the participation to national and international conferences, with posters and oral communications. A third objective could be the obtainment of patents on new agents with therapeutic or diagnostic potential.

Head office:

Department of Pharmacy

Specific didactic activity of the contract:

The didactic activity will follow the teaching program of the degree courses in the Department of Pharmacy. The researcher will be required to carry out didactic activity for the scientific sector BIO/14 (Pharmacology). A special effort will be required in the context of teachings of General Pharmacology and Pharmacological biotechnologies.

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 Sector: **10/H1 French language, literature and culture**

Disciplinary Scientific Sector: **L-LIN/04 Language and translation - French**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

An analysis of the French language in its synchronic and diachronic dimensions, in its phonetic, morphological, syntactic, lexical, textual and pragmatic structures and its different levels and communicative registers, both oral and written.

Studies aimed at translating and evaluating translated texts, both oral and written, in an array of genres including literary and non - literary, general and specialised and multimodal texts

Scientific productivity:

Volumes and contributions on topics that are coherent with the academic discipline, research activity on an international level, contributions to seminars, conferences and debates on the French Language in its synchronic and diachronic dimensions

Head office:

Department of Philology, Literature and Linguistics

Specific didactic activity of the contract:

Teaching activity at both BA and MA level in the courses of the Department of Philology, Literature and Linguistics.

Candidates will be required to demonstrate an adequate knowledge both **French and English**

Candidates may present a maximum number of **12 scientific publications**

Selection code A_12

Department of Department of Physics

Admission Examination Sector: **02/A2 Theoretical physics of fundamental interactions**

Disciplinary Scientific Sector: **FIS/02 Theoretical physics, mathematical models and methods**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Theoretical study, starting from the fundamental principles and laws supported by suitable mathematical and computational tools, and mathematical developments addressed to improved theoretical treatments and modelling of physical phenomena

Scientific productivity:

Publications and presentations at international conferences and workshops

Head office:

Department of Physics

Specific didactic activity of the contract:

Basic physics courses for degrees in science, technology or life science, mathematical methods and theoretical physics for the degree in physics

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

Candidates may present a maximum number of **12 scientific publications**

It is suggested that include in its curriculum a complete list of publications and a brief description in your resume the context of each of the 12 publications presented. If the PhD thesis is not part of the 12 publications are also suggested to provide one electronic copy or a reference to the same network

Selection code A_13

Department of Law

Admission Examination Sector: **12/B2 Labour law**

Disciplinary Scientific Sector: **IUS/07 Labour law**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The evolution of the categories of employed workers in statute law and collective agreement, with special reference to executives

Scientific productivity:

The output of the research will be published in peer-review scientific journals and/or as book chapters

Head office:

Department of Law

Specific didactic activity of the contract:

In-class teaching in line with each academic year's allocation, additional teaching, and assistance to students enrolled in the SSD IUS/07 programme

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

Candidates may present a maximum number of **15 scientific publications**

Selection code A_14

Department of Law

Admission Examination Sector: **12/H1 Roman and ancient law**

Disciplinary Scientific Sector: **IUS/18 Roman and Ancient Law**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Breach of contract and creditors' claims against debtor in breach in Roman law, with special regard to the management of *negotiationes*, in a historical and comparative perspective

Scientific productivity:

Publication of one or more books, papers and essays in peer-reviewed journals and collective works

Head office:

Department of Law

Specific didactic activity of the contract:

Classroom teaching each academic year, integrative teaching and service to students scheduled by the periodic teaching program related to SSD IUS/18

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

Candidates may present a maximum number of **12 scientific publications**

Selection code A_15

Department of Computer Science

Admission Examination Sector: **01/B1 "Informatics"**

Disciplinary Scientific Sector: **INF/01 "Informatics"**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Computer Science

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:

Fundamentals of Computer 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_16

Department of Civil and Industrial Engineering (DICI)

Admission Examination Sector: **09/A3 Industrial design, machine construction and metallurgy**

Disciplinary Scientific Sector: **ING-IND/15 Design methods for industrial engineering**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research activity will be focused on the typical aspects of Technical Design, with particular reference to the development of experimental methodologies for full field structural tests and to the implementation of CAD/CAE methods for virtual prototyping of industrial systems. Moreover, the research will include the development of innovative technique for the design of individual biomedical devices

Scientific productivity:

The scientific activity will include the participation in national and international research projects funded by public authorities and private companies, the publication of scientific papers in international journals and the oral presentations at national and international conferences

Head office:

Department of Civil and Industrial Engineering (DICI)

Specific didactic activity of the contract:

A course of the SSD ING-IND/15 (Design and Tools of the Industrial Design) within the degree of Mechanical and Aerospace Engineering, with particular reference of the classes of Industrial Technical Drawing

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 Civil and Industrial Engineering (DICI)

Admission Examination Sector: **08/B3 Structural engineering**

Disciplinary Scientific Sector: **ICAR/09 Structural engineering**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Analysis and design, eventually assisted by experimental tests, of civil structures adopting traditional and new generation materials. Particular attention shall be given to the development of innovative solutions for the realization of reinforced concrete and seismic resistant masonry buildings and to steel civil and industrial constructions.

Structural security assessment for static loads and seismic assessment of existing reinforced concrete and/or masonry structures; optimization of traditional techniques and development of innovative systems for the structural upgrading of existing structures with particular attention to the historical/monumental buildings

Scientific productivity:

The scientific activity foresees the participation and the scientific coordination of national and international research projects funded by public or private agencies, the realization of scientific papers for both the publication on international journals and the presentation during national and international congresses and conferences

Head office:

Department of Civil and Industrial Engineering (DICI)

Specific didactic activity of the contract:

One of the teaching included in the Scientific and Disciplinary Sector SSD ICAR/09 (Construction Techniques) foreseen within the Civil Engineering and Construction Master Degree (Laurea Magistrale in Ingegneria Edile e delle Costruzioni Civili). If required, the teaching activity can be extended to one of the teaching included in the Scientific and Disciplinary Sector SSD ICAR/08 (Construction Science)

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

Candidates may present a maximum number of **12 scientific publications**

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination Sector: **08/C1 Design and technological planning of architecture**

Disciplinary Scientific Sector: **ICAR/10 Building design**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Technical and typological analysis of the building heritage of the historical centres in Tuscany, aimed at the building and energy recovery. Analysis of the buildings by means of a material, constructive, metric and photographic survey; detection of degraded elements and related pathologies; evaluation of the connotative elements of the building types and of their typological matrix, together with the constructional and material ones. Definition of guidelines for the construction and energy recovery, aimed at the preservation of the distinctive elements of the building types and their context

Scientific productivity:

Papers in national and international publications and participation to conferences

Head office:

Department of Energy, Systems, Territory, and Construction Engineering

Specific didactic activity of the contract:

Teaching activity in the courses of Architectural Technology of the Long Cycle Master Degree Course in Building Engineering Architecture.

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_19

Department of Energy, Systems, Territory, and Construction Engineering

Admission Examination Sector: **09/C2 Thermal sciences, energy technology and building physics**

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

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Problems related to the use of renewable energy sources and their sustainability and integration, also in accordance with recent goals proposed by international bodies. Methodologies and tools for the optimal design of components for thermotechnical systems and of heat pump systems

Scientific productivity:

The expected scientific activity involves participation to research projects funded by public or private entities, writing of scientific papers to be published either in domestic and international frameworks, on scientific journals or congresses. Any deposit of industrial patents.

The scientific productivity must be consistent with the reference of ING-IND/10 sector

Head office:

Department of Energy, Systems, Territory, and Construction Engineering

Specific didactic activity of the contract:

Teaching and service to students, especially in ING-IND/10 sector and according to the need of the courses afferent to the Department of Energy, Systems, Territory, and Constructions Engineering

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 Information Engineering

Admission Examination Sector: **09/H1 Information processing systems**

Disciplinary Scientific Sector: **ING-INF/05 Information processing systems**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Research activities related to the scientific sector "09/H1 – Information processing systems", with reference to "Cyber security" and "Embedded and wearable 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 Energy, Systems, Territory, and Construction Engineering

Specific didactic activity of the contract:

Teaching activity in courses of the scientific sector "09/H1 – Information processing systems". Participation to teaching 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_21

Department of Information Engineering

Admission Examination Sector: **09/G2 Bioengineering**

Disciplinary Scientific Sector **ING-INF/06 Electronic and informatics bioengineering**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Technologies and methods for the acquisition and elaboration of signals deriving from intelligent wearable systems, with particular focus on human gesture and posture recognition for rehabilitation.

Scientific productivity:

Publications in international scientific journals and conference proceedings in the field of Engineering, with particular focus on Biomedical Engineering; participation in national and international research projects

Head office:

Department of Information Engineering

Specific didactic activity of the contract:

Teaching, supplementary teaching, student services in the field of Biomedical engineering. The researcher will be required to carry out his/her teaching activity within the framework of the Department teaching plan in the specific sector SSD ING-INF/06. The total annual commitment for teaching, supplementary teaching and student services will be conform to the university regulations

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 Mathematics

Admission Examination Sector: **01/A2 Geometry and algebra**

Disciplinary Scientific Sector: **MAT/02 Algebra**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Algebra, Algebraic Number Theory

Scientific productivity:

Publications, seminars in Universities, Research institutes and international or national conferences

Head office:

Department of Mathematics

Specific didactic activity of the contract:

Teaching in basic courses of Mathematics and in advanced courses of Algebra

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 Sector: **01/A3 Mathematical analysis, probability and statistics**

Disciplinary Scientific Sector: **MAT/05 Mathematical analysis**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Mathematical Analysis

Scientific productivity:

Production of scientific publications (book chapters, peer reviewed international conference proceedings, papers on peer reviewed journals, preprints) in mathematical analysis

Head office:

Department of Mathematics

Specific didactic activity of the contract:

Courses of mathematical analysis

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 Clinical and Experimental Medicine

Admission Examination Sector: **05/G1 Pharmacology, clinical pharmacology and pharmacognosy**

Disciplinary Scientific Sector: **BIO/14 Pharmacology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

- a) Development of pre-clinical and translational experimental models for investigations on drugs active on the gastrointestinal tract, under normal conditions and in the presence of digestive and extra-digestive diseases;
- b) Study of issues concerning the analysis of adverse drug reactions by means of pharmacovigilance and pharmacoepidemiology methodologies

Scientific productivity:

Scientific productivity objectives: As a part of the above point a), the activities of the researcher will cover the study of pharmacologically active molecules on gastrointestinal neuromotor functions, the pathophysiological mechanisms of inflammation and gastrointestinal immunity and the protection and repair processes of the gastrointestinal wall in pre-clinical and translational models of digestive and extra-digestive disorders; As a part of the above point b), the researcher will analyze the quality of reports and the causal relationship of adverse drug reactions through the use of specific algorithms; he/she will develop also new strategies for the analysis of databases on the assessment of adverse drug reactions.

Head office:

Department of Clinical and Experimental Medicine

Specific didactic activity of the contract:

Specific planned educational activity: The modalities of the lectures will be those laid down in the teaching program of medical area courses.

Activities of assistance

Azienda Ospedaliero-Universitaria Pisana

Qualification

Degree in pharmacy

Specialization in Pharmacology and related sectors

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

Candidates may present a maximum number of **25 scientific publications**

Selection code A_25

Department of Clinical and Experimental Medicine

Admission Examination Sector: **06/B1 Internal medicine**

Disciplinary Scientific Sector: **MED/09 Internal medicine**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research activity will cover the study of prognostic markers of clinical outcome and frailty of elderly patients in different clinical settings: from acute clinical conditions to complex chronic degenerative and oncological diseases. In particular, the impact of hormonal changes associated with aging and of frailty scores on survival, disability and quality of life will be assessed. Also, the effect of clinical polypharmacy and appropriateness of drugs on clinical outcome of frail patients with acute and/or chronic conditions will be studied.

Scientific productivity:

The objectives of scientific productivity will be preparation and testing of diagnostic and therapeutic trials in the field of research indicated above (prognostic markers of clinical outcome and frailty of elderly patients); identification of research lines also by favouring scientific collaborations with national and international institutions; preparation and submission of research programs for funding, preparation of manuscripts to be submitted for the publication in peer-reviewed scientific journals of high scientific impact, presentation of results to major national and international congresses in the research field

Head office:

Department of Clinical and Experimental Medicine

Specific didactic activity of the contract:

Ex-cathedra teaching, tutoring of students working on their dissertation for MD and allied disciplines degree, post-graduate medical specialization courses

Activities of assistance

Azienda Ospedaliero-Universitaria Pisana

Qualification

Degree in medicine

Specialization in Geriatrics and related sectors

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_26

Department of Clinical and Experimental Medicine

Admission Examination Sector: **06/G1 Paediatrics and child neuropsychiatry**

Disciplinary Scientific Sector: **MED/39 Child neuropsychiatry**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The research activities will cover the diagnosis and therapy, in the early years of life, of developmental motor, perceptual and cognitive disabilities of high clinical and medico-social relevance, through the development of innovative diagnostic and therapeutic protocols, based on the latest discoveries in clinical basic neuroscience, using advanced techniques of SNC exploration

Scientific productivity:

The objectives of scientific productivity will be preparation and testing of diagnostic and therapeutic trials in the field of research indicated above of developmental motor, perceptual and cognitive disabilities, preparation and submission of research programs for funding, preparation of manuscripts to be submitted for the publication in peer-reviewed scientific journals of high scientific impact, presentation of results to major national and international congresses in the research field.

Head office:

Department of Clinical and Experimental Medicine

Specific didactic activity of the contract:

Ex-cathedra teaching, tutoring of students working on their dissertation for MD and allied disciplines degree, post-graduate medical specialization courses

Activities of assistance

Department of Clinical and Experimental Medicine – IRCCS Fondazione Stella Maris

Qualification

Degree in medicine

Specialization in Child Neuropsychiatry and related sectors

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 Surgical, Medical and Molecular Pathology and Critical Care Medicine

Admission Examination Sector: **05/E3 Clinical biochemistry and molecular biology**

Disciplinary Scientific Sector: **BIO/12 Clinical biochemistry and molecular biology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Evaluation of biological and biochemical variables in biological samples and in vivo, with regard to pathophysiological conditions involving the endocrine system

Scientific productivity:

Publications in peer-reviewed medium-high Impact Factor scientific journals; participation in national and international research projects; participation in national and international congresses

Head office:

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

Specific didactic activity of the contract:

The teaching activity will include courses of clinical Biochemistry within the different degrees of 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**

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

Admission Examination Sector: **11/E1 General psychology, psychobiology and psychometrics**

Disciplinary Scientific Sector: **M-PSI/01 General psychology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Communicative skills in the healthcare environment

Scientific productivity:

The research activity will be carried out in areas belonging to the scientific sector M-PSI/01 in order to publish in peer-reviewed medium-high Impact Factor scientific journals; participation in national and international research projects; participation in national and international congresses

Head office:

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

Specific didactic activity of the contract:

The teaching activity will include courses of General Psychology within the different degrees of the medical area

Activities of assistance

Azienda Ospedaliero-Universitaria

Qualification

Degree in medicine

Specialization in Clinical Psychology and related fields

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 Agricultural, Food and Agro-Environmental Sciences

Admission Examination Sector: **07/B1 Agronomy and field, vegetable, ornamental cropping systems**

Disciplinary Scientific Sector **AGR/02 Agronomy and field crops**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The candidate shall develop original research, in the sector of Agronomy and Crop production (AGR/02), that will concern the study of herbaceous crops for food and non-food purposes (industrial and fiber crops) and medicinal and aromatic plants. Specific studies on agro-environmental factors and cultivation techniques will be carried out to evaluate their influence on crop growth, development and quanti-qualitative response of herbaceous species, including their biology and ecophysiology. Principles and techniques for the sustainable management of the production system will be implemented, thus developing the most suitable itineraries to ensure the availability, quality and quantity of their products and their valorisation, according to different end-uses

Scientific productivity:

To publish in national and international indexed journals (ISI, Scopus); to attend national and international meetings for the dissemination of the research results. Scientific deliverables will have to be related to the reference sector AGR/02

Head office:

Department of Agricultural, Food and Agro-Environmental Sciences

Specific didactic activity of the contract:

Didactic work on Agronomy and Crop cultivation (AGR/02); a specific activity is envisaged within the courses of Agronomy and/or Crop cultivation planned in 'Science of Herbal Products and Health' bachelor degree and in 'Food Production and Agroecosystem Management' advance degree

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_30

Department of Agricultural, Food and Agro-Environmental Sciences

Admission Examination Sector: **07/B2 Arboriculture and forest systems**

Disciplinary Scientific Sector: **AGR/03 Arboriculture and fruitculture**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The candidate shall develop original research, within the area of Fruit Tree Science (AGR/03), mainly focused on how the orchard works as an agro-ecosystem and how planting systems, environmental variables and cultural practices affect orchard performance and sustainability. Specific studies on the ecophysiology, response to abiotic stresses and implications on orchard management are also included. Activities will deal with the development of indexes to determine yield and fruit quality, the development and use of new technologies to monitor tree and fruit status, methods and practices to alleviate the environmental impact of woody crops, management of water, soil and tree that affects carbon and water balance in the species that are widespread in Central Italy (olive growing and viticulture).

Scientific productivity:

Publications in national and international indexed journals (ISI, Scopus); participation to national and international symposia and meetings for the dissemination of the research results. Scientific deliverables will have to be related to the reference sector AGR/03

Head office:

Department of Agricultural, Food and Agro-Environmental Sciences

Specific didactic activity of the contract:

Teaching within Fruit Tree Science (Arboricoltura Generale e Coltivazioni Arboree AGR/03); specific courses for the three-year bachelor degrees in 'Agricultural Science' and "Viticulture and Enology and the two-year advanced degree 'Agro-industrial productions and Agroecosystem 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_31

Department of Geosciences

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

Disciplinary Scientific Sector: **GEO/08 Geochemistry and volcanology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Geochemistry and isotope geochemistry of continental sediments for paleoenvironmental and paleoclimatological reconstructions

Scientific productivity:

Publication of peer-reviewed papers in national and international journals

Head office:

Department of Geosciences

Specific didactic activity of the contract:

Teaching and student support within the didactics scheduling in the SSD GEO/08 in agreement with the annual teaching plans

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 Geosciences

Admission Examination Sector: **04/A3 Engineering geology, physical geography and geomorphology**

Disciplinary Scientific Sector: **GEO/05 Engineering geology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Soil and rock geotechnical characterization by on-site and laboratory techniques; testing of prototype geotechnical equipments and innovative procedures for defining the geotechnical factors controlling activation and evolution of rapid shallow landslides; geological-technical and landslides survey and mapping; realization of landslide susceptibility maps by means of statistical approaches and GIS; definition of critical rainfall thresholds for triggering landslides

Scientific productivity:

Publication of peer-reviewed papers in national and international journals, participation to national and international meetings, production of landslides susceptibility and hazard maps, event scenario and other thematic maps.

Head office:

Department of Geosciences

Specific didactic activity of the contract:

A basic course and other supplementary teaching and practical activities in the courses of Applied Geology, Hydrogeology, Geotechnical Survey and Underground Geology and Hydrogeology, within the first-cycle and second-cycle degree courses (depending on the annual teaching program)

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 Political Sciences

Admission Examination Sector: 14/A2 **Political science**

Disciplinary Scientific Sector: SPS/04 **Political science**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

The researcher will conduct her/his research on the domestic and comparative themes that are central to Political Science using the discipline's methodological instruments. As part of the research tradition in Political Science at the Department of Political Sciences of Università di Pisa, the researcher shall demonstrate particular competence in teaching and research on political parties and their organizations, at domestic, comparative and European level, as well as on political parties' private, public and illegal financing

Scientific productivity:

One monograph and one article in Fascia A (indexed) journal or 4 articles _in Fascia A journals

Head office:

Department of Political Sciences

Specific didactic activity of the contract:

Political Science, Comparative Politics, European Political System

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_34

Department of Political Sciences

Admission Examination Sector: **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**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

Historical, political and institutional evolution of the Maghreb countries

Scientific productivity:

Scientific publications pertinent to the detailed analysis of the institutional, political and social transformations of the Maghreb area

Head office:

Department: Political Sciences

Specific didactic activity of the contract:

Course of "Society, politics and religion in Islam" (42 hours) LM87/88

Supporting seminars of the course "History and institutions of Afro-Asiatic countries" (L36)

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

Candidates may present a maximum number of **15 scientific publications**

Selection code A_35

Department of Veterinary Sciences

Admission Examination Sector: **07/H2 Veterinary pathology and inspection of foods of animal**

Disciplinary Scientific Sector: **VET/03 Veterinary pathology**

Nr. of position available: **1**

Aim of contract:

The fixed-term research assistant will carry out research activities, teaching activities, supplementary teaching activities and tutoring to undergraduate and graduate students

Focus of research:

General and systematic veterinary pathology

Scientific productivity:

Macroscopic, histologic and ultrastructural aspects of the major pathologies of farm, pets and wild animals

Head office:

Department of Veterinary Sciences

Specific didactic activity of the contract:

Teaching and mentoring activities within the disciplines belonging to the General and systematic veterinary pathology (VET/03)

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

Candidates may present a maximum number of 12 **scientific publications**

Example application form

Annex B

Al Magnifico Rettore dell'Università di Pisa
Lungarno Pacinotti, 43
56126 PISA

Selection code RIC2016a1

The undersigned applicant, born in _____ (day, month, year) in _____ (town, country) and resident in _____ (street number, street) _____ (town) _____ (postal code).

REQUESTS

To be admitted for participation in the selection procedure for the position of n.1 fixed-term -contract postgraduate researcher, under art.24, comma 3, lett. a of the Law 240/2010,

At the Department of _____

Sector _____

Selection code **A__ (Annex A)**

Aware of his/her responsibility the applicant declares the following:

1. fiscal code, if any (*obligatory for Italian citizens and foreigners with residence in Italy*)
2. to elect domicile for the effects of this application at _____
3. to be in possession of the following citizenship: _____
4. to enjoy the political and civil rights of his/her country of origin : _____

5. Qualifications:

(The qualifications obtained abroad must be attached and translated into Italian)

☐ PhD or equivalent qualification _____,
obtained at _____ the date _____ ;

or

☐ Medical residency (for the sectors concerned) _____
obtained at _____ the date _____ ;

and

☐ Teaching degree or equivalent, _____

obtained at University _____ the date _____ ,
period _____,

6. to not be in possession of a criminal record or convictions , indicating details of the sentences and criminal procedures pending.
7. to have the physical fitness necessary for the position
8. only for male Italian citizens: position regarding military obligations.
9. to not have been dismissed or retired from a Public Administration body for persistent insufficient production work; or to not have been declared deceased by a state employee under art.127of the 'Testo Unico' of dispositions concerning the status of civilian state employees.
10. To not presently hold or not have previously held the status of full or associate professor or of permanent university research fellow
11. to not have exceeded comprehensively twelve years (even non-continuously), including the set period of the present contract in the role of a salaried researcher or fixed-term contract researcher under articles 22 and 24 of the Law 240/2010 at the University of Pisa or at any other Italian state or non-state or computational university respectively; as well as at bodies referred to under comma 1, of article 22 of the Law 240/2010
12. To be aware that he/she cannot proceed to the stipulation of the contract if he/she as related by birth or has affinity (up to 4th grade) or marriage with a professor belonging to the department or to the structure that proposes the activation of the contract; or with the Chancellor, the General Director or any component member of the University Administration Governing Board.
13. To authorise the University of Pisa with processing of personal data under art.13 of the assessment procedure notice.

I, the undersigned attach the following to the application forms:

- 1) C.V. of scientific and teaching activity , dated and signed
numbered list of dated and signed qualifications presented
numbered list of dated and signed publications presented
a photocopy of fiscal code and identity document
qualifications and publications

The undersigned declares he/she understands that false declarations are punishable in accordance with the penal code and related laws.

The undersigned agrees to inform the university administration of any subsequent variations and acknowledges

that the administration is not liable for loss of any communications due to any incorrect addressing by candidates; or due to late changes of address from those indicated in the application. Nor is the administration liable for post office or telegraph problems, problems due to third parties or any unforeseeable circumstances.

Date_____

Signature_____
(not to be authenticated ex art. D.P.R 445/2000)

Annex C

SUBSTITUTE DECLARATION OF CERTIFICATION

Art. 46 of DPR 445 of 28/12/2000

I, the undersigned _____, born in _____ province of
_____ on the _____ resident in
_____ province of _____ street/square
_____ no. _____

Acknowledging the penal responsibility set out in Arts. 75 and 76 of the DPR 445/2000 regarding the hypothesis of falsehood in records and false declarations,

DECLARE

Date _____

The Applicant _____

No validation of signature required. No stamp duty required.

Annex D

SUBSTITUTE DECLARATION OF NOTARY ACT

Article 19 and 47 of the DPR dated 28/12/2000

I, the undersigned _____, born in _____ province of
_____ on the _____ resident in
_____ province of _____ street/square
_____ no. _____

Acknowledging the penal responsibility set out in Arts. 75 and 76 of the DPR 445/2000 regarding the hypothesis of falsehood in records and false declarations,

DECLARE

(as exemplified: that all the information contained in my CV presented is true. Or : that the copies of my qualifications or publications presented conform to the originals)

Date _____

The Applicant _____

No validation of signature required. No stamp duty required.