



SCUOLA SUPERIORE MERIDIONALE
Call for Applications

APPLICATIONS DEADLINE
02/05/2024 h. 23.59 CET

***This document has no legal value and it is
only meant to provide information in
English about the call***

The Scuola Superiore Meridionale (SSM) is hereby advertising **12 open positions for tenure track researchers** at the Scuola Superiore Meridionale, to be recruited through a competitive selection based on qualifications and interview. Further information is to be found in the table below and in the annexes to this call.

Scuola Superiore Meridionale	SC	SSD	n. posti	n. Annex di dettaglio	ID sub-procedimento
Archeology and cultures of the ancient Mediterranean	SC 10/A1 – Archaeology	SSD L-ANT/09 Ancient topography	1	Annex_1	RTT_ACMA1_2024
Archeology and cultures of the ancient Mediterranean	10/D1 – Ancient history	SSD L-ANT/02 Greek history	1	Annex_2	RTT_ACMA2_2024
Global History and Governance	SC 14B2 - History of international relations and of non-European societies and institutions	SSD SPS/14 Asian history and institutions	1	Annex_3	RTT_GHG_2024

Law and Organizational Studies for People with Disability	SC 13/B3 - Organization studies	SSD SECS-P/10 Organization studies	1	Annex_4	RTT_LOSPD_2024
Texts, Traditions and Book Cultures. Italian Studies and Novels	SC 10/F1 - Italian literature	SSD L-FIL-LET/10 Italian literature	1	Annex_5	RTT_TTCL1_2024
Texts, Traditions and Book Cultures. Italian Studies and Novels	SC 10/F3 - Italian linguistics and philology	SSD L-FIL-LET/13 Philology of Italian literature	1	Annex_6	RTT_TTCL2_2024
Clinical and Translational Oncology	SC 06/D3 - Blood diseases, oncology and rheumatology	SSD MED/06 Medical oncology	1	Annex_7	RTT_CTO_2024
Cosmology, space science & space technology	SC 02/A2 - Theoretical physics of fundamental interactions	SSD FIS/02 Theoretical physics, mathematical models and methods	1	Annex_8	RTT_SPACE_2024
Genomic and experimental medicine	SC 09/G2 - Bioengineering	SSD ING-IND/34 - Industrial bioengineering	1	Annex_9	RTT_GEM_2024
Mathematical and physical sciences for advanced materials and technologies	SC 01/A3 – Mathematical analysis, probability and statistics	SSD MAT/06 Probability and statistics	1	Annex_10	RTT_MPMS_2024
Modeling and engineering risk and complexity	SC 09/G1 - Systems and control engineering	SSD ING-INF/04 Systems and control engineering	1	Annex_11	RTT_MERC_2024
Molecular sciences for earth and space	SC 03/A2 - Models and methods for chemistry	SSD CHIM/02 Physical chemistry	1	Annex_12	RTT_MOSES_2024

Nature of employment and type of contract

The employment relationship will be established between the Scuola Superiore Meridionale through the stipulation of a fixed-term employment contract, governed by the relevant provisions in force also with regard to tax, welfare, social security and insurance treatment. The contract will be signed no more than 90 days after the conclusion of the relevant selection

procedure and shall be for a non-renewable term of six years. The contracts no rights to access any permanent position in any Italian University, but constitutes a preferential title in open competitions for positions in the Italian Civil Service. The fixed-term researcher will carry out research, teaching and student service activities, according to programs set by the competent academic bodies and to the requirement of the relevant academic Structure.

Regarding the research activity, the researcher's work performance is overseen by a scientific supervisor or by the Coordinator of the relevant Academic Structure or by his/her delegate; the teaching commitment is set by the relevant academic bodies.

The fixed-term researcher is required to self-certify, through a dedicated register, the teaching student service activities carried out, and required to deliver this registry, completed and duly signed, to the Coordinator of the relevant academic Structure at the end of each academic year. The Coordinator in turn is charged with supervising and reporting to the Rector any case of non-compliance registered; failure to comply with the requirements related to the registry may constitute just cause for termination of the contract (as per Article 2119 of the Italian Civil Code).

As per art. 24, paragraph 5, of L. 240/2010, the School might – on the researcher's request and if adequate resources are available – consider the researcher, as long as s/he possess Italy's National Scientific Qualification (*Abilitazione Scientifica Nazionale*) for a permanent position as associate professor, as per the procedures referred to in art. 11 of the School's Regulations for the Recruitment of Researchers on fixed-term contracts.

Duties

The overall annual commitment for teaching and student service activities is equal to 350 hours for a full-time position; of these, no less than 60 hours are allocated to lecture courses.

Remuneration

Remuneration will consist in a gross annual salary equal to the 120% of the initial salary for a full-time researcher, in accordance with D.P.C.M. 08/01/2024.

Prerequisites for participation

To participate in the competitive selection, the following prerequisites are required under penalty of exclusion:

GENERAL REQUIREMENTS:

- Enjoyment of civil and political rights,
- not to have received criminal convictions incompatible with the status of a public employee,
- not to have been dismissed or released from employment in a Public Administration due to persistent insufficient performance; not to have been declared forfeited from a state job; not to have been fired for just cause or justified subjective reason or for having obtained the job through the production of false documents or by fraudulent means,
- to have complied with the laws on military recruitment (only for male candidates of Italian nationality born up to 1985),
- not to be employed permanently as a full professor, associate professor, or researcher, nor to have ceased to hold one of the aforementioned qualifications.

Non-Italian nationals are required possess the following general prerequisites:

- a) enjoyment of civil and political rights in the country of which they are nationals;
- b) the same prerequisites mentioned above as required to Italian citizens (except for that regarding military service, unless it is required by the law of the country of which they are nationals);
- c) adequate knowledge of the Italian language.

Candidates having kinship or affinity ties, within the fourth degree included, with the members of the SSM Steering Committee and with the General Director of the Scuola Superiore Meridionale are not allowed to participate.

SPECIFIC REQUIREMENTS

To possess, by the call deadline, one of the following specific requirements:

- **Ph.D. title or equivalent granted in Italy or abroad**
- **Medical specialization**

Candidates with doctoral degrees awarded outside Italy are required either to submit documentation proving the equivalence of their degrees, or to have applied for equivalence, as per art. 38 of Legislative Decree no. 165/2001 (see website <http://www.funzionepubblica.gov.it/strumenti-e-controlli/modulistica>); otherwise, they are required either to submit documentation proving the *equipollenza*, or to have requested it, as per art. 74 of Presidential Decree no. 382/1980 (see website <https://www.miur.gov.it/equipollenze>) of the degree.

As per Article 24, paragraph 1 bis, of Law 240/2010 as currently in force candidates who, by the deadline of this call, have for no less than thirty-six (even non-consecutively) months either attended doctoral courses or carried out remunerated and formally assigned research activities at Italian or foreign universities or research institutes other than that issuing the call, are allowed to participate.

As per Article 14, paragraph 6-septiesdecies, of DL 36/2022 converted into Law 79/2022, candidates who are, or have been in the three years prior to June 30, 2022, holders of RTD-A contracts, or candidates who, by the deadline of this call, have held one or more research grants for a total duration of no less than three years, are also allowed to participate, All candidates are admitted to the pre-selection.

Applications

Applications are to be submitted, on penalty of exclusion, by **23.59 CET of 02/05/2024** and can only be forwarded online, via the following website:

<https://pica.cineca.it/ssm/rtt-ssm-2024>

To forward an application, the candidate is required to previously register with the PICA website and then to log in and enter all the required documents and data. Documents are to be submitted in PDF format.

Attachments of no more than 30 MB are allowed. (In case of image copies of analogue original documents, the attached documents must be in PDF/A format and preferably scanned in black and white, with a resolution not exceeding 200 DPI).

Candidates are required to upload the following documents:

- A) the CURRICULUM VITAE, to be filled according to the template available in the online application at <https://pica.cineca.it/login>,
- B) a maximum of 12 scientific publications,

C) a copy of a valid identification document.

Publications written in a language other than Italian, French, English, German, or Spanish are to be translated into Italian or English. Translated texts may be submitted in typewritten copies together with the original language text.

Selection Committees

At the beginning of the recruitment procedures, for each position open a Selection Committee is established with a composition of three members and in compliance, as far as possible, with the principle of gender parity. The committee is composed of three members who are all required to be University professors, while two of them are also required to be full professors. They will be drawn from shortlists including no less than four persons among those selected by ANVUR in accordance with art.16, paragraph 3, letters f) and h), of Law 240/2010 or among those meeting the requirements needed to be included in these shortlists.

Evaluation of CVs

The Selection committee assesses the CVs submitted by the candidates paying special attention to the following points:

- a) Doctoral diploma or equivalent (achieved in Italy or abroad) or medical specialization diploma;
- b) university-level teaching activity in Italy or abroad;
- c) documented training or research activity at qualified Italian or foreign academic or scientific institutes;
- d) documented clinical activities (if relevant for the field in which the position is open);
- e) project activities (if relevant for the field in which the position is open);
- f) organization, leadership, and coordination of national and international research groups, or participation to them;
- g) patents (if relevant for the field in which the position is open);
- h) participation at national and international symposia, workshops and conferences;
- i) national and international awards and recognitions for research activities;
- j) internationally recognized European specialization diploma (if applicable).

The evaluation of the above qualifications is carried out by considering the significance it assumes in relation to the quality and quantity of the research activity carried out by the individual candidate.

Evaluation of publications

The Selection committee assesses the publications submitted by the candidates according to the following criteria:

- a) originality, innovation, methodological rigor, and relevance of each scientific publication;
- b) publication's relevance and coherence for the field in which the position is open;
- c) scientific relevance of each publication's outlet, as well as publication's dissemination within the scientific community;
- d) analytical determination of the candidate's individual contribution in case of collaborative work.

The Selection Committee is also required to assess the overall consistency of the candidate's scientific production, as well as its intensity and temporal continuity.

The Selection Committee may also, if appropriate, use the following indicators (if relevant for the field in which the position is open):

- a) total number of citations;
- b) average number of citations per publication;
- c) total "impact factor";
- d) average "impact factor" per publication;
- e) combinations of the previous parameters aimed at enhancing the impact of the candidate's scientific production (Hirsch index or similar).

Interviews

Following the evaluation of qualifications and publications, the selection committee draws a shortlist of candidates admitted to a public interview and an oral examination aimed at ascertaining adequate knowledge of the required foreign language(s). A notice with the interviews' calendar will be published on the Scuola Superiore Meridionale website no less than 20 days before the date set for the interview. A **list of shortlisted candidates** will be published on the SSM website no less than 3 days before the scheduled interviews.

Incompatibilities and conflicts

Without prejudicing the provisions of art. 53 of Legislative Decree no. 165 of March 30, 2001, as amended and supplemented, art. 22, paragraph 9 of Law no. 240 of December 30, 2010, and the Regulations on the subject of the Scuola Superiore Meridionale, the contract advertised in this call for applications cannot be cumulated with similar ones, even at other universities, nor with research grants or postgraduate or post-doctoral research fellowships, except if they are in support of international mobility for research purposes.

Those who have previously been working on a permanent basis as full or associate university professors or university researchers, even if they have ceased to serve, as well as those who have already been working, for at least three years, with fixed-term contracts like the ones advertised in this call for applications, are not allowed to participate.

The contract referred to in this notice may not be entered into with those who have a degree of kinship or affinity up to and including the fourth degree with a member of the Ordinary Committee or with the Director General of the Scuola Superiore Meridionale.

Reference

Please refer to the official announcement in Italian, published on the SSM website for any further information not specified in this call.

ID RTT_ACMA_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Archeology and cultures of the ancient Mediterranean* of the Area of Human Sciences and Law of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of *Archeology* (SC 10/A1) and specifically with the sub-field of *Ancient topography* (SSD L-ANT/09).

Research requirements:

The researcher will be required to carry out research activities in the following fields: ancient urbanism and history of the city and its monumental expressions; the study of ancient architectural complexes; heritage enhancement including through processes of philological and digital reconstruction of ancient monuments and testimonies, such as corpora, virtual restoration and others; analysis of building sites, production spaces and modus operandi of ancient workshops

Teaching and student services requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Human Sciences and Law Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to carry out research in the areas defined above; to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will be expected to teach, within the framework of the above-mentioned schedule and for no less than the minimum commitment defined above, in undergraduate or graduate courses in *Archeology and cultures of the ancient Mediterranean* as well as to carry out additional teaching and tutoring activities for undergraduate and doctoral students; will be expected to participate in the academic life of the SSM and especially of the Area of Human

Sciences and Law. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of *conferences*, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls. The researcher is also expected to participate in the organization, coordination and execution of excavations, both for educational and research purposes, and to the related cataloguing campaigns, as well as to collaborate in the creation of agreements and conventions with other institutions, to contribute to publish outcomes of group research and to perform organizational work.

ID RTT_ACMA_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Archeology and cultures of the ancient Mediterranean* of the Area of Human Sciences and Law of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of *Ancient History* (SC 10/D1) and specifically with the sub-field of *Greek History* (SSD L-ANT/02).

Research requirements:

The researcher will be required to carry out research activities in the following fields: study of epigraphic evidence from ancient Greece and its colonies; literacy and material culture; corpora and systematization of epigraphic records; study of institutional aspects of the Greek world with special reference to the colonial world.

Teaching and student services requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Human Sciences and Law Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to carry out research in the areas defined above; to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will be expected to teach, within the framework of the above-mentioned schedule and for no less than the minimum commitment defined above, in undergraduate or graduate courses in *Archeology and cultures of the ancient Mediterranean* as well as to carry out additional teaching and tutoring activities for undergraduate and doctoral students; will be expected to participate in the academic life of the SSM and especially of the Area of Human Sciences and Law. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of *conferences*, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

The researcher is also expected to participate in the organization, coordination and execution of excavations, both for educational and research purposes, and to the related cataloguing campaigns, as well as to collaborate in the creation of agreements and conventions with other institutions, to contribute to publish outcomes of group research and to perform organizational work.

ID RTT_GHG_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Global History and Governance (GHG)* of the Area of Human Sciences and Law of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the Chinese language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of *History of international relations and of non-European societies and institutions* (SC 14/B2) and specifically with the sub-field of *Asian history and institutions* (SSD SPS/14).

Research requirements:

The researcher will be required to carry out research activities in the following fields:
History of Asia, and especially of China and/or Central Asia, in the XIX and XX century.

Teaching and student services requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Human Sciences and Law Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to carry out research in the history of Asia and especially of XIX- and XX-century China and Central Asia; to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will be expected to teach, within the framework of the above-mentioned schedule and for no less than the minimum commitment defined above, in undergraduate or graduate courses in *Global History and Governance* as well as to carry out additional teaching and tutoring activities for undergraduate and doctoral students in the field of Chinese and Central Asian history; will also be expected to participate in the academic life of the SSM and especially of the Area of Human

Sciences and Law. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_LOSPD_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Law and Organizational Studies for People with Disability (LOSPD)* of the Area of Human Sciences and Law of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of *Organization and Human Resource Management* (SC 13/B3, SSD SECS-P/10).

Research requirements:

The researcher will be expected to carry out research activities in the field of Organization and Human Resource Management and especially in the sub-fields pertaining organizational cultures and identities as well as the promotion of diversity and of the inclusion of persons with disabilities in working environments. Research activities will be carried out within the research fields relevant to the area of *Law and Organizational Studies for People with Disability (LOSPD)* and to be performed by using appropriate methods – such as participatory research and on-field organizational archaeology – in pursuit of the full inclusion of persons with disabilities.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Human Sciences and Law Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to carry out research on organizational cultures and identities as well as the promotion of diversity and of the inclusion of persons with disabilities in working environments, within the research fields relevant to the area of *Law and Organizational Studies for People with Disability (LOSPD)*; to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals

or in monographs published by qualified national and international publishers. The researcher will be expected to teach, within the framework of the above-mentioned schedule and for no less than the minimum commitment defined above, in undergraduate or graduate courses in Law and Organizational Studies for People with Disability as well as to carry out additional teaching and tutoring activities for undergraduate and doctoral students in the fields of Organization and Human Resource Management; will also be expected to participate in the academic life of the SSM and especially of the Area of Human Sciences and Law. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_TTCL1_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Texts, Traditions and Book Cultures* of the Area of Human Sciences and Law of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of *Italian Literature* (SC 10/F1, SSD L-FIL-LET/10).

Research requirements:

The researcher will be expected to carry out research activities in the field of history and criticism of Italian literature, using methods open to the formal (historical-linguistic, metrical, and stylistic) and historical-literary aspects of texts produced in Italy or pertaining to Italian culture, paying special attention to Renaissance-era literary production.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Human Sciences and Law Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to carry out research in the field of Italian literature, paying special attention to Renaissance-era literary production; to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will be expected to teach, within the framework of the above-mentioned schedule and for no less than the minimum commitment defined above, in undergraduate or graduate courses in *Texts, Traditions and Book Cultures* as well as to carry out additional teaching and tutoring

activities for undergraduate and doctoral students; will also be expected to participate in the academic life of the SSM and especially of the Area of Human Sciences and Law. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_TTCL2_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Texts, Traditions and Book Cultures* of the Area of Human Sciences and Law of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of *Italian Linguistics and philology* (SC 10/F3) and with the sub-field of *Philology of Italian Literature* (SSD L-FIL-LET/13).

Research requirements:

The researcher will be expected to carry out research activities in the field of Philology of Italian Literature by using fully philological methodologies, open to the formal (historical-linguistic, metrical, and stylistic), material and historical-literary aspects of texts produced in Italy or pertaining to Italian culture, paying special attention to Medieval- and Renaissance-era lyric tradition.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Human Sciences and Law Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to carry out research in the field of Italian literature, paying special attention to Renaissance-era literary production; to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will be expected to teach, within the framework of the above-mentioned schedule and for no less than the minimum commitment defined above, in

undergraduate or graduate courses in *Texts, Traditions and Book Cultures* as well as to carry out additional teaching and tutoring activities for undergraduate and doctoral students; will also be expected to participate in the academic life of the SSM and especially of the Area of Human Sciences and Law. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_CTO_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Clinical and Translational Oncology (CTO)* of the Science and Technologies Area of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of Blood diseases, Oncology and Rheumatology (SC 06/D3) and with the sub-field of Medical Oncology (SSD MED/06).

Research requirements:

The candidate will be required to perform research activities within the field of Medical Oncology (SSD MED/06), paying special attention to the sub-fields of Survivorship Care to oncological treatments in breast cancer, aimed at the creation and implementation of dedicated care pathways. The candidate will also foster the development of clinical and research collaborative networks with other Italian and foreign institutions.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Science and Technologies Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

Apart from fulfilling the above-mentioned research, teaching and student service requirements, the researcher will be expected to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will also be expected to participate in the academic life of the SSM and especially of the Science and Technologies Area. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_SPACE_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Cosmology, Space Science & Space Technology (SPACE)* of the Science and Technologies Area of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 10

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of Theoretical physics of fundamental interactions (SC 02/A2) and with the sub-field of Theoretical physics, mathematical models and methods (SSD FIS/02).

Research requirements:

The candidate will be required to perform research activities regarding the study of theories of gravitation in their fundamental, phenomenological and cosmological aspects; the search for symmetries for analytical and numerical resolution of dynamical systems, with applications to Classical and Quantum Cosmology; the development of cosmological models of dark energy, to be compared with experimental observations; dynamic treatment of complex systems (e.g., cosmological, astrophysical, mechanical and even biological) via geometric and topological invariants.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Science and Technologies Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher's teaching commitment will pertain to disciplines within the sub-field of Theoretical physics, mathematical models and methods (SSD FIS/02) and will include lecture courses, tutoring activities and other student service activities, prioritizing the teaching of Physics and Cosmology to

undergraduate and graduate students and in accordance with the yearly schedule of the SSM. Furthermore, they will include tutoring activities aiming to support the preliminary work needed for doctoral dissertations and honors theses; outreach and dissemination activities relevant to the section of *Cosmology, Space Science & Space Technology* (SPACE); participating in, and presenting papers to, national or international symposia and workshops; publishing in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will also be expected to participate in the academic life of the SSM and especially of the Area of Science and Technology. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_GEM_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Genomic and Experimental Medicine (GEM)* of the Science and Technologies Area of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 10

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of Bioengineering (SC 09/G2) and with the sub-field of Industrial Bioengineering (ING-IND/34).

Research requirements:

The candidate will be required to perform research activities regarding the applications of microfluidics-based methodologies for single-cell sequencing of the human transcriptome and genome and for the design of novel computational techniques (machine learning- or artificial intelligence-based) for the analysis of such data and useful for the development of advanced therapeutic approaches for translational research on genetic diseases. The Researcher will also be required to perform of teaching activities in the fields of Bioengineering, Industrial Bioengineering and possibly also in cognate ones.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Science and Technologies Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be required to perform research activities in the above-mentioned fields, and also to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers. The researcher will also be expected to teach, in keeping with the above-mentioned schedule and coherently with the teaching commitment specified above, in undergraduate and graduate courses organized by the section of *Genomic and Experimental Medicine (GEM)*, performing also tutoring activities to the benefit of undergraduate

and graduate students. The researcher will also be expected to participate in the academic life of the SSM and especially of the Science and Technologies Area. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

Teaching and student service activities will include, but are not limited to:

- Lecture courses, tutoring activities, seminars and other teaching activities within the fields specified above;
- Student service activities including group tutoring and activities in support of exam preparation and of researching and writing both honors theses and doctoral dissertations;
- Participation in testing and exam procedures (e.g. committees evaluating honors theses and doctoral dissertations);
- Further teaching activities including orientation ones.

ID RTT_MPMS_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Mathematical and Physical Sciences for Advanced Materials and Technologies (MPMS)* of the Science and Technologies Area of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 10

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of Mathematical analysis, probability and statistics (SC 01/A3) and with the sub-field of Probability and statistics (SSD MAT/06).

Research requirements:

The candidate will be required to perform research activities relevant to the sub-field of Probability and statistics (SSD MAT/06), particularly on Markovian and non-Markovian stochastic processes useful for the study of models of nonlocal dynamics. It will also need to develop probabilistic methods for the study of nonlocal differential operators in partial derivative problems and their generalizations. Such studies should facilitate finer, more detailed and statistically reliable stochastic modeling, to be validated also through the use of suitable simulations, of real phenomena of various kinds.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Science and Technologies Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to teach graduate and undergraduate courses in the sub-field of Probability and statistics (SSD MAT/06) and possibly in cognate ones. Moreover, the researcher will also be expected to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers; and to participate in the academic life of the SSM and especially of the Science and Technologies Area. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_MERC_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Modeling and Engineering Risk and Complexity (MERC)* of the Science and Technologies Area of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 10

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of Systems and control engineering (SC 09/G1; SSD ING-INF/04).

Research requirements:

The candidate will be required to perform research activities relevant to field of Systems and control engineering (SC 09/G1; SSD ING-INF/04) and particularly to the development of innovative methodologies for the analysis, modeling and control of the collective behavior of complex systems and networks described by interconnected nonlinear vector fields, the development of nonlinear and/or distributed control strategies for nonlinear and discontinuous systems and their applications.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Science and Technologies Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Duties:

The researcher will be expected to teach graduate and undergraduate courses in the field of Systems and control engineering. Teaching will include (but will not be limited to):

- Lecture courses, tutoring activities, seminars and other teaching activities within the field of Systems and control engineering;
- Student service activities including group tutoring and activities in support of exam preparation and of researching and writing both honors theses and doctoral dissertations;
- Participation in testing and exam procedures (e.g. committees evaluating honors theses and doctoral dissertations);
- Further teaching activities including orientation ones

The researcher will also be expected to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers; and to participate in the academic life of the SSM and especially of the Science and Technologies Area. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.

ID RTT_MOSES_2024

Comparative procedure (as per art. 24, par. 3, of l. 240/2010 and subsequent amendments and additions) for one position as tenure track researcher, for a six-year fixed-term, charged with research, teaching and student service activities in fulfillment of the requirements of the Section of *Molecular Sciences for Earth and Space* (MOSES) of the Science and Technologies Area of the Scuola Superiore Meridionale.

Full time commitment

Maximum number of publications accepted: 12

An adequate knowledge of the English language, coherent with the position's research requirements, is required. The sought profile is required to be coherent with the field of Models and methods for chemistry (SC 03/A2) and especially with the sub-field of Physical Chemistry (SSD CHIM/02).

Research requirements:

The candidate will be required to perform research activities on *Development and validation of theoretical methods, models and scientific programs for calculating molecular and spectroscopic, static and dynamic properties in systems of interest in astrochemistry and environmental chemistry.* The research will involve the development of models for the simulation of molecular systems both at fundamental electronic state equilibrium and in photo-excitation-induced nonequilibrium and phenomena interconnected with vibro-electronic relaxation. The molecular systems studied will involve molecules of interest in astrochemistry and environmental chemistry. In particular, energy transfer processes of absorbed radiation will be characterized at the molecular scale using theoretical models and protocols for calculating optical properties. Research will also involve the development of methodologies and models for the simulation and understanding of time-resolved electronic dynamics as well as time-resolved fluorescence spectroscopy, time-resolved stimulated Raman and infrared spectroscopy, and transient absorption spectroscopy.

Teaching and student service requirements:

The fixed-time researcher will be required to carry out teaching and student services activities, performed according to the schedule established by the competent academic bodies and the requirements of the relevant academic Structure (Science and Technologies Area). The total annual commitment for teaching and student service activities amounts to 350 hours for a full-time contract, including no less than 60 hours of lecture courses.

Teaching and student service duties will include (but not be limited to) lecture courses, tutoring activities and laboratory work relevant to graduate and undergraduate courses in Physical Chemistry; they will also include (but not be limited to) supporting students in the writing of honors theses, holding seminars in Physical Chemistry and participating in testing and exam procedures.

Duties:

Research tasks will involve the development and use of *in silico* techniques for the simulation and characterization of the electronic and vibrational structure of molecules of interest in astrochemistry and environmental chemistry, for ab-initio molecular dynamics, for the study of non-adiabatic dynamics phenomena, and for electronic dynamics modeling. In particular, from the standpoint of chemistry, the molecular mechanisms involved in equilibrium or time-resolved optical spectroscopies of molecules of interest will be studied.

Apart from performing the above-mentioned research duties, researcher will also be expected to participate in, and present papers to, national or international symposia and workshops; to publish in qualified national and international peer-reviewed journals or in monographs published by qualified national and international publishers; and to participate in the academic life of the SSM and especially of the Science and Technologies Area. Such participation will include, but will not be limited to, contributing to the planning of teaching activities as well as to the organization of conferences, workshops, seminars, symposia, and also of participating (individually or as part of larger projects) to national and international competitive calls.