

ANNOUNCEMENT OF PUBLIC SELECTION FOR N° 1 GRANT FOR RESEARCH
(Italian law 30 December 2010, n.240, art.22)

Description

The Scuola Normale Superiore announces a selection, based on work to date, for a research contract named “*Machine Learning Application to the search of exotic gravitational waveform for Einstein Telescope within European Open Science Cloud*” as part of the research project UE H2020 “*EOSC Future*”, Acronym EOSC Future (call H2020-INFRAEOSC-2020-2).

The ESCAPE project is building a virtual research environment (VRE) for the astronomy, astroparticle, particle and nuclear physics communities, as a prototype of the European Open Science Cloud (EOSC). It is envisaged that developments of tools and services realised in ESCAPE will become part of the EOSC implementation through EOSC-Future.

The selected candidate will work for the scientific project "Universe Extremes" in a research group already started for the use of artificial intelligence-based data analysis techniques. In particular, the candidate will work on the search of exotic waveforms emitted by coalescence of black holes in the presence of dark matter in the halo. The work will be carried out in an interdisciplinary way and in collaboration with the other European partners involved in the project, with the possibility of working periods in other European research institutes. In particular, this project will be carried out in collaboration with the research group of G. Bertone of the University of Amsterdam.

Duration of the contract: 1 year (estimated starting: 1st October 2021)

Annual gross remuneration, inclusive of all taxes: € 30,000

Application deadline: the application must be registered online by 23.59 (Italian time) of August 30, 2021.

Applications received and registered online after the deadline, for reasons not attributable to the Scuola, will not be admitted to the selection.

Information about the selection procedure can be found below. Candidates are invited to read the official announcement (*Bando*) and to follow exclusively its detailed instructions should they decide to apply.

Requisites

Applications are invited from candidates who meet the following requisites:

- To have completed a Master's degree in Physics, Astronomy and Computer Science (in accordance with earlier Italian university regulations, or a second-cycle undergraduate degree as per the interdepartmental decree of 9 July 2009). Candidates who have completed the aforementioned degrees abroad may also apply, if said degrees are recognized as equivalent to Italian degrees;
- To have carried out at least 2 years of post-graduation research activity in the above mentioned scientific fields.

Knowledge of English language is also required to carry out the research activity.

Additional competence and/or experience relevant to the choice of the researcher: PhD in Physics, Astronomy and Computer Science (not mandatory).

How to apply

Candidates with all the aforementioned requisites who wish to participate in the selection process must submit their application using exclusively the online procedure (SerSe) available on the Scuola's website at <https://serse.sns.it/en/>. No other submission method will be accepted.

At first candidates shall register themselves in SerSe and then, once received a confirmation email to the email address indicated by them, they shall select on the homepage the specific call they are interested to. Candidates having already registered themselves in SerSe shall use the same access credentials to enter in the online procedure and submit their application.

The email address indicated by candidates during the online registration is the official means of communication relating to this selection. Any change must be communicated promptly to the email address job.opportunities@sns.it.

The online application must include also the following documents:

- a) the scanned copy of a valid identification document (mandatory – the document shall not exceed 1 Mb);
- b) a curriculum vitae containing a detailed description of the studies and professional experience (mandatory);
- c) the publications, including also the PhD thesis, and any other document that the candidate believes may be useful to the evaluation of her/his application (it is mandatory to attach the publications that the candidate intends to submit to the evaluation of the Committee);
- d) a list of the submitted publications (mandatory).

For those unpublished texts accepted for publication, the candidate must include the relative document in its final form and the publisher's certificate or a detailed substitute statement of affidavit confirming that the relative text has been accepted for publication (please use attachment A).

In order to submit the documents listed above, candidates shall upload them exclusively as PDF files (only PDF format will be accepted). Only if direct upload is not possible, exceptionally one or more publications can be provided extra online procedure, delivering them by registered mail or courier to the following address: Ufficio Protocollo of the Scuola Normale Superiore, Via del Castelletto, n. 11, 56126 Pisa (Italy).

After the online application has been received and registered, it will not be possible for candidates to change or integrate it with further documents.

In case of problems in registering the online application, for administrative information or questions, candidates can write an email to job.opportunities@sns.it.

Privacy statement under article 13 GDPR

1 The EU Regulation 2016/679 on General Data Protection Regulation (hereinafter GDPR) is applicable to the personal data provided in this form.

2 The Data Controller is the Scuola Normale Superiore, a public university institute, sited in Piazza dei Cavalieri, 7 Pisa - 56126, in the person of the Director and pro tempore legal representative. The instructed therefore authorized employees appointed to the Servizio Personale dell'Area Affari Generali (email: gestione.personale@sns.it) will process your data together with other employees of the Scuola.

3 Personal data collected within this selection/application procedure are processed to manage it and to ascertain the conditions required by this call (e.g. education/professional titles and Curriculum Vitae), the absence of impediments (e.g. data relating to criminal convictions and offences), and as far as the selected candidates are concerned, to establish the collaboration / work relationship due by the contract and the consequent activities, including the access to the Scuola's structures and facilities (ICT; library, canteen, etc.).

Legal bases to process the provided personal data are article 6 *sub* b) GDPR (to establish a contractual relationship with the School) and article 6 *sub* e) GDPR public interest within the institutional activities of the School, including archiving purposes in the public interest, scientific or historical research purposes or statistical purposes also as aggregate data. Possible personal data belonging to particular categories are provided exclusively if necessary to exercise the candidate's rights (e.g. to ascertain chronic or temporary disabilities in order to access possible benefits during the selection procedure) or to comply with legal obligations under article 9 *sub* b) and h) GDPR.

Personal data will be processed, also with automated tools (software and databases administrated by the Scuola and hosted by the contracting entities in servers sited in Italy like SerSe and CINECA), in compliance with the principles of accountability, lawfulness, fairness, minimization, transparency, integrity, accuracy, confidentiality and proportionality.

4 The collected personal data will be communicated or transferred to the competent offices of the Scuola and to third parties (public and / or private parties) in the context of institutional relations, for the fulfilment of legal obligations or regulations or of contracts, within the services required by the Scuola (e.g. selection procedure commission, institutional databases established by the Ministry and the Public Administration). Personal data could be transmitted or communicated to extra-EU countries only under an adequacy decision or in case of the ascertained existence of proper guaranties to protect data.

Some of the collected personal data (e.g. the results of the selection, or if required by the law, the candidate's CV) could be published in the Official Online Register and on the website of the Scuola whereas stated by the law, Scuola's regulations and/or transparency obligations.

The collected personal data will be processed and stored for strictly necessary time to achieve the purposes for which they have been collected, in any case, the special provisions on the documentation storage by public institutions will be applied.

The data subjects may exercise the following rights:

- to access to personal data, in the cases and in the ways referred to in article 15 GDPR;
- the rectification, erasure or restriction of the processing of personal data, in the cases and conditions referred to in articles 16-18 GDPR; erasure is not permitted for the data included in the documents that must be kept by the Scuola to guarantee transparency in public activities;
- the portability of data, in the cases and in the ways referred to in article 20 GDPR;
- to object to the processing, under article 21 GDPR;
- the right to submit a complaint to the Italian Data Protection Authority.

The aforementioned rights may be exercised by sending a request by email to gestione.personale@sns.it or privacy@sns.it or via certified e-mail (PEC) at protocollo@pec.sns.it. For any further information, please do not hesitate to contact the Data Protection Officer (DPO), email: dpo@sns.it.