

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 and interview, for a research contract named “*Work extraction from quantum mechanical systems*” as part of the projects PRIN 2017 “*Taming complexity with quantum strategies: a hybrid integrated photonics approach*” (code 2017SRNBRK_004, CUP E54I19001520005) and MUR_PRO3_2021-23_CONG_RIC_GIOVANNETTI “*Quantum Pathfinder*” within the programme PRO3 2021-23.

The study focuses on the characterization of the efficiency threshold of work extraction procedures that use quantum system as working fluids. Particular efforts will be devoted in the study of those processes where external noise sources are affecting the procedure.

Duration of the contract: 1 year

Annual gross remuneration, inclusive of all taxes: € 30.000

Application deadline: 1st August 2022.

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 have completed a Master’s degree in Physics (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.

PhD in Physics is also relevant, but not mandatory.

How to apply

Candidates with all the aforementioned requisites who wish to participate in the selection process must submit:

- a) the application, based on the attached model (**Att. A - Application form**), written on paper with original signature under penalty of exclusion (unless the candidates choose to send the application form using a PEC e-mail address);
- b) the photocopy (non-authenticated) of a valid identification document;
- c) a signed and up-dated curriculum vitae containing a detailed description of the educational career and professional experience;
- d) 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). The publications must be provided exclusively on a digital storage device (cd, USB flash drive etc.), in pdf format. 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 B);
- e) a signed list of the submitted publications.

If the application is presented directly to the “Ufficio Protocollo” [Documents Registry Office] of the Scuola Normale or sent by registered mail or courier, the digital storage device must contain also a scanned copy of the application, the curriculum vitae and the list of publications.

In order to submit the application and documentation listed above, candidates must use one of these options:

- a) candidates can present the application form and documentation directly, during office hours (for information on opening hours please contact protocollo@sns.it), to the “Servizio Archivio, Protocollo e Posta” [Documents Registry Office] of the Scuola Normale, located at Via del Castelletto, n. 11, 56126 Pisa (Italy);
- b) candidates can send the application form and documentation by registered mail with acknowledgment of receipt or courier to the following address: Ufficio Protocollo della Scuola Normale Superiore, Via del Castelletto n. 11, 56126 Pisa (Italy). In this case, it is recommendable to write on the envelope “Research grant *Work extraction from quantum mechanical systems*”;
- c) candidates can send the application form using the electronic mail only if they possess a personal certified electronic mail address (the Italian PEC - Posta Elettronica Certificata). In this case, they should send the application form to the address protocollo@pec.sns.it.

If applicants send their application via PEC - Posta Elettronica Certificata, the presentation of documents and publications on paper, CD or USB flash drive is not requested.

Any candidature sent from a simple electronic mail address, different from the one described above, will not be accepted.

No other delivery method will be accepted.

Interview

The Committee can decide to conduct face-to-face interviews or online interviews with the admitted applicants. In this second case, the Committee will indicate also the video conferencing software platforms to be used (for instance Skype or Google Meet).

Anyway, even if the Committee chooses to conduct face-to-face interviews, applicants in the following conditions can request an online interview: applicants who live permanently outside Italy or are domiciled abroad for work/study or research, or who are unable to carry out an on-site interview for other different reasons.

Applicants in aforementioned conditions who wish to carry out the interview via video conference have to request it in the application form and they shall be equipped with the necessary and appropriate technical means for the online audio/video connection.

For the interview, applicants must show a valid identification document, otherwise they will not be permitted to take part in it.

Applicants who submit the wrong contact details, miss the connection at the date and time communicated by the Administration or fail to submit an identification document forfeit their right to participate in the interview and consequently in the selection process.

The Scuola Normale is not responsible for any technical problems that may arise during the interview.

For further information or questions about the application procedure and the relative documentation, or about the selection process itself, candidates can write an email to job.opportunities@sns.it