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 *"Experimenting and evaluating explainable machine learning methods for scientific decision making"* as part of the research project MIUR – "Dipartimenti di Eccellenza", call 2017 – Faculty of Science - cofunded.
The activity to be proposed is related to the use of eXplainable AI methods in various scientific and research domains of the class where Machine Learning techniques are being extensively used:
- for the analysis of omics datasets aimed at the interpretation of new pathological mechanisms, discovery of biomarkers and development of precision drug therapies within the framework of personalised medicine protocols.
- for the analysis and interpretation of forecasting mechanisms in financial time series and in financial network modelling, with particular focus on systemic-financial risk problems at high and low time frequency.

Duration of the contract: 1 year

Total gross remuneration, inclusive of all taxes: € 30.000,00

Application deadline: 8 June 2022.

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

Requisites
Applications are invited from candidates who have completed a Master's degree in Economics and Finance, Physics, Informatics, Informatic Engineering or Mathematics (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.

Additional competence and/or experience relevant to the choice of the researcher: PhD in disciplines related to the scientific area of Artificial Intelligence.

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 Experimenting and evaluating explainable machine learning methods for scientific decision making";*

c) candidates can send the application form using the electronic mail <u>only</u> 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.
<u>Any candidature sent from a simple electronic mail address, different from the one described above, will not be accepted.</u>

<u>No other delivery method will be accepted.</u>

The candidate will also indicate in the Application Form the name and email address of a maximum of 2 experts in the field of research to whom he/she will ask to send to the Administration a reference letter. The experts will send their letters to the email address job.opportunities@sns.it within four days after the deadline of the call.

<u>Interview</u>
The Committee can decide to conduct face-to-face interviews or remote interviews with the admitted candidates. 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, candidates in the following conditions can request a remote 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.
Candidates 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.
During the interview, applicants must show the identity card or passport that they had enclosed in copy with their application, otherwise they could not take part in it.
The wrong communication of the contact details, as well as the missed connection at the date and time communicated by the Administration and the missed presentation of the identity card or passport cause the loss of right to participate at the interview and consequentially at the selection.
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