Call for the selection of no. 2 temporary research associate positions:

The University of Pisa announces the public selection, assessed by qualifications and interview, for the assignment of n. 2 grants for research activities (hereinafter referred as "research grants") as provided in the Annex A, with a specific tab for each project listing the reference structure, the research object, the scientific field, a summary of the background and skills of the fellow, information relating to the interview.

Research grants will be funded on the POR FSE TOSCANA 2014-2020 resources in the frame of the Regione Toscana project Giovanisì (www.giovanisi.it), aiming to enhance young people's autonomy.

Successful candidates will have to carry out their research activities mainly (at least 50% of the research activity period) with one of the operators of the regional cultural and creative network that collaborates on the project and is a mandatory component of the partnership.

Contract duration: 24 months

Gross annual salary: € 28.000,00

Admission requirements:

- Hold a master degree at the time of application submission;

- Be under the age of 36 by the application submission;

Successful candidates currently holding other fellowships or research grants, are asked to renounce before the acceptance of the research grants referred in this notice, without prejudice to the provisions stated in the Law 30/12/2010 n. 240, art. 22, subparagraph III (exception laid down for the scholarships awarded by national or foreign institutions and aiming to complement the research activities with a stay abroad).

The selection does not enable nationality limitations and follows the cross-cutting priorities of gender equality and equal opportunities.

Applications:
Applications shall be submitted online only, at the following link: https://pica.cineca.it/unipi/

or shall be invalid. It is necessary to have an email address to login and complete the application.

Applicants should fill in all the required data and upload all documents in PDF format.

The system allows saving a draft of the application within the application deadline. The system will register the online application date and send a receipt with an automatic e-mail reply. After deadline, the system will not allow login nor application submission.

In order to be valid, application shall include all the required data, applicant's signature and a valid identification document.

Each application will be assigned a unique identification number to be referred to in all subsequent communications, together with the selection code provided by the application form.

Applicants undertake to communicate in writing any variations of what declared in the application form.

The communication shall be edited in PDF format, signed and forwarded to the Rector of the University of Pisa by the Italian certified e-mail system address (P.E.C. Posta Elettronica Certificata): protocollo@pec.unipi.it or via e-mail at: concorsi_assegni@unipi.it within the application's deadline. Applicant's valid identification document should be annexed.

For further information on application submission, please refer to concorsi_assegni@unipi.it
For any IT malfunctioning please refer to unipi@cineca.it.

Applications shall be completed with the following annexes:

1. A training-learning-research project with details of the outcomes and the professional development the candidate aims to achieve through the participation in the selected research project;
2. A self-attested Curriculum of the personal education, post graduate degrees, scientific experiences and research products (publications, patents, etc.**);**
3. The qualifications the applicant considers eligible for this selection;
4. The Publications the applicant considers eligible for this selection;
5. A list of Publications and qualifications;
6. A copy of the fiscal code (if applicable) and identification card/passport;

All publications format should not exceed 30 megabyte and should be submitted in PDF only, using the specific section of the application form.

Selection procedure:

For each selection procedure the Director of the University Department involved in the research project will appoint a committee of three members.
The selection is assessed by qualifications and interview.
For the selection the committee will evaluate:

a) the consistency between the training-learning-research project the candidate proposed and the specific research project;

b) the consistency between the curriculum vitae, the course of study, the research experiences made and the requested project profile;

c) the academic qualifications and the number and quality of research results achieved (publications, patents, etc.);

d) the rating obtained by the interview, which is intended to assess attitude, motivation and background of the candidate participating in the project.

The rating assigned to the candidates as for point b) shall not be less than 40% of the total rating achievable and the rating assigned to the candidates as for point c) shall not be less than 30% of the total rating achievable.

For the interviews timetable, please refer to each research grant tab annexed to this call.

The candidates are invited to check the University website (https://www.unipi.it/ateneo/bandi/assegni/index.htm) during the two days before the date set for the interview.

The failed attendance to the interview will be considered as a voluntary renunciation.

Upon the Selection Committee approval, candidates committed abroad and therefore unable to attend to the interview at the University of Pisa, will be allowed to be interviewed via the web, prior applicant's identification by approved international universities or research centers. The Selection Committee is appointed to establish the duly examination of the candidates and shall acquire each candidate's copy of ID or passport.

The research grants will be allocated no later than 20 March 2020, as required by the call for selection of the Regione Toscana.

Please note that the English version is given as a matter of courtesy, for the only purpose of information. It cannot be legally used in the event of a dispute or a claim arising from the interpretation of this translation and concerning the contents, a possible uncertainty, contradiction or discrepancy. Should this occurs, the Italian version of the call shall prevail as the only valid. For full Italian text, please see: https://www.unipi.it/ateneo/bandi/assegni/index.htm.

Department of Information Engineering

Acronym "RAMSETE"

Project Title funded by the Tuscany Region:

RFID technology for an interactive experience at museums

Scientist in charge of the Research Project funded by the Tuscany Region:

Prof. PAOLO NEPA

Title of the Research activity:

 "Development, implementation and validation of an RFID-based system to improve management and organization activities at museums: **technological infrastructure and software development"**

Project summary:

RAMSETE project is aimed to the development, implementation and validation of an RFID-based system to improve management and organization activities at museums. The RFID technology is cheap and so it can allow the implementation of the proposed system even in small museums. RFID labels attached to visitors and museum exhibits will be used to implement interactive and immersive activities, as well as to implement other services for either the visitors or the museum management. RFID labels will be used for both remote identification and localization of objects and persons. The system prototype will be implemented and tested at the Natural History Museum of Calci, Pisa.
RAMSETE is an interdisciplinary project that requires HW integration, SW development, optimization of localization algorithms and data processing.

Scientific discipline sectors:

ING-INF/02 - Electromagnetic fields
INF/01 - Informatics
ING-INF/05 - Information processing systems

Number of fellowiships: 1

Summary of the background and skills of the candidate:

Required Master degree: Telecommunication Engineering. Electronics, Computer Science, Computer Engineering.
Candidate age: under 36
Required background: basic knowledge of RFID and IoT technologies; basic knowledge of elements of Electronics, Antennas and propagation, wireless systems. Programming languages: MATLAB, Python, C/C++. The PhD degree or the status of PhD student are not a prerequisite for getting the fellowship, but will be considered as an additional qualification. Soft skills, as team-working and communication skills (in English too), will be also valued.

Fellow's Supervisor

Prof. PAOLO NEPA

Date, time and place of the interview:

March 5, 2020, h. 15.00, Department of Information Engineering, Via G. Caruso 16, Pisa.

Department of Information Engineering

Acronym "RAMSETE"

Project Title funded by the Tuscany Region:

RFID technology for an interactive experience at museums

Scientist in charge of the Research Project funded by the Tuscany Region:

Prof. PAOLO NEPA

Title of the Research activity:

"Development, implementation and validation of an RFID-based system to improve management and organization activities at museums: **software development and database management**"

Project summary:

RAMSETE project is aimed to the development, implementation and validation of an RFID-based system to improve management and organization activities at museums. The RFID technology is cheap and so it can allow the implementation of the proposed system even in small museums. RFID labels attached to visitors and museum exhibits will be used to implement interactive and immersive activities, as well as to implement other services for either the visitors or the museum management. RFID labels will be used for both remote identification and localization of objects and persons. The system prototype will be implemented and tested at the Natural History Museum of Calci, Pisa.
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Scientific discipline sector:

ING-INF/02 - Electromagnetic fields
INF/01 - Informatics
ING-INF/05 - Information processing systems

Number of fellowiships: 1

Summary of the background and skills of the candidate:
Required Master degree: Telecommunication Engineering. Electronics, Computer Science, Computer Engineering.
Candidate age: under 36
Required background: basic knowledge of SW solutions for data collection and signal processing, for IoT systems. Programming languages: C/C++. The PhD degree or the status of PhD student can give ria positive evaluation. The PhD degree or the status of PhD student are not a prerequisite for getting the fellowship, but will be considered as an additional qualification. Soft skills, as team-working and communication skills (in English too), will be also value.

Fellow's Supervisor

Prof. PAOLO NEPA

Date, time and place of the interview:

March 5, 2020, h. 16.30, Department of Information Engineering, Via G. Caruso 16, Pisa.