



*Summary of the Rector's Decree no. 835 of December, 6, 2022*

**CALL FOR APPLICATIONS FOR THREE ASSISTANT PROFESSOR POSITIONS**

The Sant'Anna School of Advanced Studies - Pisa (Sant'Anna School) announces a call for the recruitment of **three assistant professors** (ricercatore a tempo determinato) with full time temporary contract pursuant to Italian Law no. 240/2010, art. 24 paragraph 3 letter A: These positions will be recruited **at the Academic Faculty of Experimental and Applied Sciences**.

**Telecommunications, Computer Engineering, and Photonics Institute**

- **One position in the Academic recruitment field 09/A3 Industrial design, machine construction and metallurgy - Academic discipline ING-INF/21 Industrial design, machine construction and metallurgy.**
- **Research activities:** The activity of the assistant professor will focus on the development of models for the simulation and optimization of steel processes using specific software tools (Aspen Plus and Modelica) and Machine Learning methods. The models will be mainly applied to the aim of improving economic and environmental sustainability, of a more efficient management of energy and material resources and better management and enhancement of by-products and resulting materials, in a Circular Economy and Industrial Symbiosis perspective. The researcher will also be involved in training activities such as support for teaching activities within the Doctoral Programs in Emerging Digital Technologies as well as in supplementary courses for ordinary students and postgraduates, as well as Masters and Seasonal Schools active at the Scuola Superiore Sant 'Anna. The researcher will be involved in third mission activities to disseminate scientific knowledge and transfer research results outside the academic context, contributing to the social growth and cultural orientation of the country.
  
- **One position in the Academic recruitment field 09/H1 Information Processing Systems - Academic discipline ING-INF/05 Information Processing Systems.**
- **Research activities:** The r assistant professor will carry out scientific and didactic-training activities on advanced techniques also based on Artificial Intelligence approaches, for process modelling and optimized and distributed management of energetic and material resources and by-products in the context of the steel industry for the purpose of improving its environmental and economic sustainability. The researcher will also be involved in training activities such as support for teaching activities within the Doctoral Programs in Emerging Digital Technologies as well as in supplementary courses for ordinary students and postgraduates, as well as Masters and Seasonal Schools active at Scuola Superiore Sant 'Anna. The researcher will be involved in third mission activities to disseminate scientific knowledge and transfer research results outside the academic context, contributing to the social growth and cultural orientation of the country.

**Institute of Mechanical Intelligence**

- **One position in the Academic recruitment field 09/A2 Applied Mechanics - Academic discipline ING-INF/13 Applied Mechanics.**
- **Research activities:** The research activity deals with design, development and implementation of human-machine interfaces and wearable robotic devices, including



haptic devices for tactile feedback and exoskeletons for kinaesthetic feedback. The activity involves device design, development of control systems and interfaces with the human operator, and experimental validation both in laboratory setups and field-applications. A relevant topic in the experimental activity is the sensing system, including biometric signals, used both for device control and interfacing, and for experimental validation and comparison of performance. The activity includes implementation of the prototypes in relevant medical, industrial and service fields, with particular emphasis on clinical rehabilitation and assistance, virtual and augmented reality environments for training and rehabilitation.

The assistant professors will contribute to teaching activities within the Scuola Superiore Sant'Anna teaching programs (Undergraduate, Master, Seasonal Schools and and Ph.D. students)

**Duration of the contracts:** three years.

**Salary:** 36.344,02 € gross per year.

### **Admission Requirements:**

**Candidates must satisfy the following requirements:**

- to hold a PhD or equivalent.

If the PhD degree or equivalent qualification has been awarded abroad, candidates must provide the documents which certify that these qualifications are considered equivalent according to the Italian law in force (equipollence/equivalence-recognition of degrees). If candidates do not comply with the requirement while submitting the application, they will be admitted to the selection under condition and, if winners, they have to submit all necessary documents certifying that their qualifications are considered equivalent according to the Italian law in force by the date of the signature of the contract.<sup>1</sup>

- to have an excellent knowledge of both written and spoken English.

### **Others Requirements**

Candidates must supply:

- their PhD thesis
- no more than 12 publications

### **Who Can't Apply**

- Those who, at the date of the deadline for application, are or have been professors or assistant professors who achieved tenure.
- Those who, at the date of the application deadline, are related, within the fourth degree, by blood or by marriage to professors of Sant'Anna School, or to the Rector ( Rettore) or to the Managing Director (Direttore Generale), or to a member of the Board of Directors (Consiglio di Amministrazione) of Sant'Anna School.

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<sup>1</sup> In order to know how to obtain the equipollence/equivalence-recognition of PhD degrees or of equivalent qualification, please refer to these web sites:

- <https://www.miur.gov.it/equipollenze> for the Equipollenza (equipollence recognition) given by Ministero dell'Istruzione, dell'Università e della Ricerca which states for all the selections procedures;
- ([http://www.funzionepubblica.gov.it/sites/funzionepubblica.gov.it/files/modulo\\_equivalenza\\_LAUREA\\_Ministero\\_UNIVERSITA\\_0.pdf](http://www.funzionepubblica.gov.it/sites/funzionepubblica.gov.it/files/modulo_equivalenza_LAUREA_Ministero_UNIVERSITA_0.pdf)) for the Determina di Equivalenza del Titolo (Equivalence-recognition of degrees) given by **Dipartimento della Funzione Pubblica**, which states only for the specific selection procedure the candidates intend to apply to; in this case the candidates must specify the selection procedure they intend to apply to in the form.



### **Application**

Candidates are requested to apply online at the web page:

6 <https://pica.cineca.it/santanna/2022-rtda-09/>

**Deadline: by January, 26 2023**

For technical support for the application please contact CINECA support via the link you find at the bottom of the page <https://pica.cineca.it/santanna>

**For further information about the call, please contact the Personnel Department Office (Tel. +39-050-883.575/258, e-mail [infodocenti@santannapisa.it](mailto:infodocenti@santannapisa.it)).**

The following documents must be supplied as pdf files during the on line application:

- 1) Curriculum Vitae signed and dated;
- 2) copy of Identification Document (e.g. passport);
- 3) copy of your PhD thesis;
- 4) copy of your publications, not exceeding the number of 12 and list of the submitted publications;
- 5) all academic and professional qualifications, other accomplishments, awards and any additional information which can be useful for the evaluation of the applicant. All documents, certificates and letters submitted should be saved in pdf format;

To apply candidates need have a mail address, a printer and a scanner because they have to print, sign and upload the scanned copy of the application.

They will be able to withdraw their application until the deadline, if they need to change a submitted application, they have to withdraw it and submit a new one.

### **Selection process and calendar:**

The evaluation committee will be appointed by the Director of the Scuola Sant'Anna. A restricted number of applicants, to be admitted to a final interview, will be selected by the committee, on the basis of cv's, publications and qualifications.

**The date of the interview between the Committee and the admitted candidates and the list of the admitted candidates will be announced in this web page on February, 21, 2023.**

<https://www.santannapisa.it/it/selezioni/selezione-pubblica-la-stipula-di-tre-contratti-di-ricercatore-ricerica-tempo-determinato-ai>

### **No further information will be given to candidates**

If necessary, the HR Department will contact applicants only via the email address designated on applications.

We inform that under the article 13 of the EU General Data Protection Regulation n. 679/2016 and the Italian Legislative Decree 30 June 2003 ("Privacy Code regarding the protection of personal data"), Sant'Anna School of Advanced Studies (hereinafter the "School") is a registered Data Controller. On its behalf, the internal processor is the Human



# Sant'Anna

Scuola Universitaria Superiore Pisa

Resources Department Head, e-mail: [privacy@santannapisa.it](mailto:privacy@santannapisa.it) personal data will be processed by other instructed, therefore authorized, School employees.

Applicants are due to read the Privacy Notice published on the web site [www.santannapisa.it/privacynotice](http://www.santannapisa.it/privacynotice)

Fixed term employment contracts are enforced under the Law 240/2010, art. 24, par. 3, lett. b)

For further information about the Telecommunications, Computer Engineering, and Photonics Institute (TeCIP) please refer to

<https://www.santannapisa.it/en/institute/tecip>

For further information about the Institute of Mechanical Intelligence please refer to

<https://www.santannapisa.it/en/institute/mechanical-intelligence>

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