

International Postdoctoral Program (2017/2) - Call for applications

martes, 31 outubro, 2017 - 18:15

Campus Vida's Research Centers Network at the University of Santiago de Compostela hires new postdoctoral researchers in the areas of Information Technology (CiTIUS), Chemistry (CiQUS) and Medicine (CiMUS) for a period of two years.



INTERNATIONAL POSTDOCTORAL PROGRAM 2017/2 - [APPLICATION FORM](#) AT THE BOTTOM

The International Postdoctoral Program, partially funded by the *Consellería de Cultura, Educación e Ordenación Universitaria (Centros Singulares de Investigación de Galicia e Agrupacións Estratéxicas Consolidadas, 2016-2019)* and the *European Regional Development Fund (ERDF)* offers up to 6 postdoctoral positions, aimed to hire new researchers for any of the three centers of *Campus Vida's Singular Research Centers Network (SRCN)*. Download the Call in the following link: [International Postdoctoral Program 2017/2](#)

RESEARCH AREA OPENINGS

- Information Technology (CiTIUS): [Artificial Vision](#), [Autonomous Sensors](#), [Data to Text](#) and [Machine Learning](#).
- Molecular Medicine and Chronic Diseases (CiMUS): Neuroscience, Oncology, Cardiovascular, Endocrinology and Obesity, Experimental Therapies, Nanomedicine, Genomics and Biostatistics/Bioinformatics. [See research topics](#).
- Biological Chemistry and Molecular Materials (CiQUS): Biological Chemistry, New Materials, including Nanobiomaterials, Synthetic Methodology, Structural Chemistry, Computational Chemistry. [See research topics](#).

RESUME AND BASIC REQUIREMENTS

- Employment contract for a period of 2 years with a gross salary of 30,000 €/year, according to candidate's qualification and experience. It includes medical care coverage and work accident insurance through the *Spanish Health Care System* providing access to the Spanish public health care system for candidates and their family, as well as pension and unemployment benefits. Travel allowance of 1,100 €/year.
- The candidate will join the selected research group (see Research Area Openings on the call), under the supervision and mentoring of the corresponding group leader(s), to develop a project in a stimulating scientific environment, having access to state-of-the-art research facilities and a number of training and career development opportunities.
- The call seeks outstanding and highly motivated candidates, with initiative, creativity and team-working ability, including working in interdisciplinary research groups.
- Candidates must hold a PhD in an area related with the selected research opening. Applicants must have carried out their main activity abroad (out of Spain) for at least 12 months in the 3 years immediately before the date of starting the contract. Candidates who have performed the PhD thesis at the *University of Santiago de Compostela* are not eligible. Preference will be given to candidates who have at least one year of postdoctoral research experience and awarded their PhD after January 1st 2012 and with at least one year of postdoctoral research experience at the date of closing of the application. Fluent English is essential.
- Training program in transversal skills: intellectual and property rights, technology transfer, entrepreneurship, communication, management, etc.

- The estimated starting date is February-April 2018.

EVALUATION AND SELECTION PROCEDURE

The review procedure will be carried out in two steps:

Step 1: the documentation, [uploaded via the Online Application Form](#), will be scored according to the following evaluation criteria:

- Scientific achievements: previous research experience and skills, scientific results, publications, awards, etc. (up to 40 points).
- Adequacy of the scientific background of the candidate to the selected research line (up to 15 points).
- External References of the candidate (up to 15 points).
- Motivation letter (up to 10 points).

Only candidates with an initial evaluation of 55 points or higher are considered “pre-selected” and will be invited to pass to the second step.

Step 2: Pre-selected candidates will be invited to prepare a research proposal. They will be given 2 weeks to prepare the corresponding research proposal which [must follow the template available](#) at the official call.

Pre-selected candidates will be encouraged at this step to contact the corresponding group leader for advice and guidance during the preparation of their Research Proposal. A research proposal that is finally submitted needs to have the approval by the corresponding group leader.

Research proposals shall be submitted by e-mail to centros.singulares@usc.es, indicating in the subject the corresponding option: POSTDOC-CIMUS or POSTDOC-CIQUS or POSTDOC-CITIUS.

The evaluation criteria to be applied at step 2 will be:

- Scientific quality and originality of the proposal and strategic relevance (up to 20 points).

If necessary, pre-selected candidates could be contacted at this step for an online interview.

Number of positions: up to 6

APPLICATION AND REQUIRED DOCUMENTS

Candidates should fill out the [Online Application Form](#), and send the following documents:

- Scanned copy (1 PDF file) of the PhD Certificate or substituting document issued by the corresponding University.
- A detailed CV (1 PDF file) including personal contact information, education, list of publications and any other relevant information (projects, awards...). [The use of this CV template](#) is mandatory.

Only one application per candidate will be accepted. Incomplete or improperly filled out applications will be discarded.

Closing date for applications (step 1): **27.11.17** at 23h59 CET (UCT + 01:00).

Contact information: centros.singulares@usc.es.

APPLY HERE

RESEARCH AREA OPENINGS

1. Artificial vision

A. Description and Research objectives

The Artificial Vision Scientific Program is interested in a postdoctoral researcher with broad knowledge in **artificial vision techniques** and proposes three alternative research topics for the position:

- Visual saliency models applied to the recognition of small targets and their behaviors by unmanned airborne vehicles (UAVs)
- Biomedical image analysis: deep learning techniques, texture analysis and 3D segmentation applied to analysis and segmentation of biomedical image of electron microscopy or diffusion

- Bioinformatics: applications in oral bacterial xenomic

B. Qualifications and skills

Applicants must have a PhD in the field of Physics, Mathematics or Computer Science. The candidates need to have a strong background in some of the following fields:

- Object and/or behavior recognition, and visual saliency models
- Deep learning, texture analysis, 3D segmentation, applied to analysis and segmentation of biomedical images (electron microscopy, diffusion, TAC,...)
- Bioinformatics, proteomics

The applicants must have good communication skills, be able to work in a team environment and have fluent English skills.

Informal enquiries can be addressed to [Diego Cabello \(diego.cabello@usc.es\)](mailto:diego.cabello@usc.es).

2. Autonomous sensors

A. Description and Research objectives

The Autonomous Sensors Scientific Program is interested in a postdoctoral researcher with broad knowledge in **analog and mixed signal circuits design** and proposes one research objective for the position:

- Design of CMOS vision sensors for focal-plane processing with special attention to low power consumption strategies and on-chip energy harvesting.

B. Qualifications and skills

Applicants must have a PhD in the field of Electronic Engineering, Physics or Computer Science. The candidates need to have a strong background in the following fields:

- Mixed-signal design: strong background in Cadence design tools and knowledge of ASIC design methodology
- Digital design (ARM, FPGA, DSP, ...): able to make system level judgment and associated trade-offs. Experience in RTL design and verification of ICs is a plus
- Experience in computer vision is a plus

The applicants must have good communication skills, be able to work in a team environment and have fluent English skills.

Informal enquiries can be addressed to [Diego Cabello \(diego.cabello@usc.es\)](mailto:diego.cabello@usc.es).

3. Data-to-Text

A. Description and Research objectives

The Data Engineering Scientific Program invites applications for a postdoctoral position researcher in the area of convergence between Artificial Intelligence and **Data-To-Text systems**. Applicants should have an excellent research track record demonstrated by publications in AI, Natural Language Generation or related areas. The postdoc researcher will join the Scientific Program, developing his/her own research agenda within one or several of the following research lines:

- (Big)Data-To-Text
- Explainable Artificial Intelligence and Natural Language Generation
- Machine-learning and Natural Language Generation
- Soft Computing meets Natural Language Generation

B. Qualifications and skills

Applicants must have a PhD in Artificial Intelligence, Computational Linguistics or Computer Science. The candidates need to have a strong background in at least one of the following fields:

- Big Data Analytics
- Knowledge representation, approximate reasoning and soft computing
- Data-To-Text systems
- Metaheuristics and machine learning

Applicants must have good communication skills, be able to work in a team environment and have a fluent English.

Informal enquiries can be addressed to: [Alberto Bugarín \(alberto.bugarin.diz@usc.es\)](mailto:alberto.bugarin.diz@usc.es).

4. Machine Learning

A. Description and Research objectives

The Data Engineering, e-Health and Business Intelligence Scientific Programs are interested in a postdoctoral researcher with broad knowledge in **Machine Learning** technologies. Candidates are expected to have a strong theoretical background and some experience in practical applications of machine learning techniques.

B. Qualifications and skills

Applicants must have a doctoral degree in Artificial Intelligence, preferably in Machine Learning, multiple high-ranking, peer-reviewed publications in prestigious journals and/or top congresses. Proven experience in one or more of the following fields will be an advantage:

- Deep Learning
- Bioinspired Computing
- Lifelong Machine Learning
- Intelligent Biosignal Processing
- Process Mining
- Machine Learning for Language Technologies
- Applications of Machine Learning in Big Data environments

Applicants must have good communication skills, be able to work in a team environment and have a fluent English.

Informal enquiries can be addressed to: **Paulo Félix Lamas** (paulo.felix@usc.es).