

Scientific Programming Research Assistant (s)

Reference No: EEWRC_SPRA_17_11

Closing date: 26 January 2018

The Cyprus Institute (Cyl) is a European non-profit science and technology institution based in Cyprus and led by an acclaimed Board of Trustees. The research aims of the Cyl are represented by three research centers: the Computation-based Science and Technology Research Center (CASTORC), the Science and Technology in Archaeology Research Center (STARC), and the Energy Environment Water Research Center (EEWRC). Considerable cross-center interaction is a characteristic of the Institute's culture.

Description of the Position

The successful candidate(s) will be actively engaged with the on-going research at the Cyprus Institute in Concentrating Solar Thermal (CST) technologies. They will be part of the research team associated with the [European Research Area \(ERA\) Chair in Solar Thermal Technologies for the Eastern Mediterranean \(CySTEM\)](#). As stated in by the European Commission in its website, "the "ERA Chairs" is an important part of the EU's effort to unlock Europe's potential in research and innovation." The holder of CySTEM ERA Chair is [Prof. Manuel J. Blanco](#), who is currently also Vice-Chair of [SolarPACES](#), the International Energy Agency's Technology Collaboration Program for CST related technologies.

The appointment(s) will be at the Research Assistant rank. The initial period of the appointment is 2.5 years, with the option of renewal subjected to the needs of the Cyprus Institute and the availability of funding. The annual salary is to be internationally competitive and is between 20,000 Euros and 27,000 Euros. The actual salary within this range will be determined based on the applicants' experience and qualifications. In addition to the salary, each researcher will have a career development plan tailored to her or his specific circumstances, interest, experience and skills, which will include training at Cyl, secondments at prestigious research institutions around the world and participation in international conferences and events.

Responsibilities

The successful candidate(s) will be responsible for helping to shape and advance the Cyprus Institute's and EEWRC's research agenda and specially the development of the CySTEM ERA Chair Scientific Work Programme. According to his/her qualifications the selected candidates will be required to carry out, under the supervision of the ERA Chair, activities related to:

- The development and maintenance of scientific computer software applications coded in C++, Mathematica, or Modelica, or a combination of the above and other computational languages.
- The use of scientific software to model physical systems, design, analyse and optimize them.
- The use of scientific software to process, represent and analyse data.

- The development and maintenance of databases to support the research activities of the CySTEM ERA Chair team and the Energy Division at large.
- The drafting of journal papers, presentations etc.
- The contribution to technical deliverables and other technical documents.
- Any other activities in support of the research activities of the Energy Division aligned with the general expectations regarding the expertise and capabilities of successful candidates to these positions.

Required Qualifications

- A Master's degree in Computer Science/ Engineering/ Physics or any other relevant qualification matching the needs of the job description
- Experience in software development, preferable, in scientific software development.
- Good knowledge of object oriented programming in C++.
- Good knowledge of software development in Linux and Windows.
- Knowledge of modern software development techniques, including unit testing, continuous integration, etc.
- Experience with the Qt libraries, Wolfram's Mathematica, and the Modelica language is desirable but not required.
- Some experience/knowledge of Concentrating Solar Thermal technologies is also desirable but not required.

Note: *The candidates might be asked to be tested about their knowledge on some of the above topics.*

Other Requirements:

- Proficiency in spoken and written English is essential. Knowledge of the Greek language will be considered an advantage.
- High level of communication and interpersonal skills and the ability to adopt to a multicultural/multinational environment
- High level of organizational, analytical and problem solving skills

Application

For full consideration, interested applicants should process their application at The Cyprus Institute JobBoard (<http://jobboard.cyi.ac.cy/>) based on the instructions given. Applicants should submit a curriculum vitae including a letter of interest and a list of three references (including contact information). For further information, please contact Prof Manuel J. Blanco (m.blanco@cyi.ac.cy). Recruitment will continue until the position is filled.

Reference letters: 3

Contact person: Prof Manuel J. Blanco

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