



Computing Support Specialists for the Computation-based Science and Technology Research Center (CaSToRC)

The Cyprus Institute (www.cyi.ac.cy) is a novel, non-profit research and educational institution, with a scientific and technological orientation, pursuing issues of regional importance and of global significance in the Eastern Mediterranean, the Middle East and North Africa. The development of Cyl involves the progressive launching of several cross-disciplinary research centres. CaSToRC is being jointly developed with the University of Illinois and its National Center for Supercomputing Applications and is intended to serve as an important research resource for Cyl, Cyprus and the Eastern Mediterranean region, and as a gateway between the EU and the region for advancing computational science, engineering and technology.

Position Description:

The Computation-based Science and Technology Research Center (CaSToRC) has two Computing Support Specialist positions available. These positions will provide computational expertise and technical support for the development of high performance computing facilities, data repositories and web and video collaboration services.

CaSToRC is a research center of the Cyprus Institute, a new dynamic academic research institute that is rapidly expanding. It is currently in the process of implementing the infrastructure project Cy-Tera, which includes a multi-Teraflop High Performance Computing (HPC) facility. This is the first phase of development of CaSToRC and will initiate a research and educational program of international caliber in computational science, engineering and technology. The center aspires to be a catalyst for the development of research and education programs in this vital field in Cyprus and in the Eastern Mediterranean region. Future plans foresee expansion of CaSToRC to become a Tier-1 regional supercomputing facility; establish an interdisciplinary research and education center; perform frontier computation-based research in science, engineering and technology; and build the e-Science infrastructure needed by the Institute's research programs.

Profile

If you have experience or expertise in any of the following areas and are looking for an exciting career at the cutting edge of current ICT technology, please consider submitting an application in English.

- User support (Both Windows and Linux)
- Scientific Applications support
- Network Administration and support
- Linux based Systems Administration
- High Performance Computing

We are looking for staff with a team focus to join our existing Systems team. Due to the fact that we are currently a small team there is a need for all staff to perform across a variety of roles. Both peer and formal training is actively encouraged and access to proper training is provided as necessary.

Required Education and Experience:

- BS degree (MS degree preferred) in a computer science, natural science, or engineering field required. Alternative degree fields will be considered if accompanied by equivalent experience (depending on nature and depth of experience as it relates to the current project).
- At least 2 years of experience with at least two of the above mentioned areas.

In addition, for a Systems Administrator role, successful candidates will need to have:

- At least 2 years of experience in Unix Systems Administration

- At least 2 years of experience in the hardware maintenance of computer systems
- Strong knowledge of computer systems and programming with at least 2 years of programming experience with one or more of the following: C, C++, Fortran.

Preferred Experience:

- At least 2 years of experience in development, modification, maintenance, porting, tuning, and/or scaling one (preferably several) parallel application code(s)
- In-depth knowledge in one (preferably more) of the following areas: application algorithms, performance analysis, system software, specialized hardware (GPUs, Cell, etc.)
- At least 2 years experience using multiple high-performance parallel computational platforms
- Experience programming in Co-Array Fortran or PGAS languages

In addition successful candidates are expected to have:

- A strong desire to work in an academic environment with the latest technology
- An ability to work effectively and harmoniously as part of a team
- A willingness to participate in ongoing training and to provide training to others as needed
- Excellent interpersonal skills necessary to work with geographically distant team members and researchers
- Excellent verbal and written communication skills
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- The initial appointment will be for 3 years with the possibility of extension depending on performance. The yearly salary range is expected to be 20000–45000 Euros depending on training and experience.

For full consideration, interested applicants should send a CV, a sample of their work and the names of three contactable referees by e-mail to HR@cyi.ac.cy by **30th of November 2009**. Please show the following reference in the subject heading: CaSToRC-09-04. For further information please contact castorc.info@cyi.ac.cy. Recruitment will continue until the positions are filled.