**ASSISTANT RESEARCH SCIENTIST**

The ACIS laboratory of the University of Florida conducts fundamental and applied research on all aspects of systems that integrate computing and information processing. Current ACIS research falls under the following broad categories: Grid and cloud computing middleware, virtualization, cyberinfrastructure for e-science, autonomic computing, micro- and nanosystems, computer architecture and peer-to-peer computing. ACIS is home to approximately twenty-five faculty, students, researchers, technical staff and distinguished visitors and has extensive collaborations with other scientists and research organizations in the USA and abroad. ACIS research facilities include advanced hardware and software systems with unique state-of-the-art virtualization capabilities. ACIS lab facilities available to support the candidate’s research include more than 350 CPUs, 1.5 TB of memory and 180 TB of storage distributed across 10 clusters with 10 Gbps internal connections and both 1Gbps and 10 Gbps external connections.

The University of Florida is a Land-Grant institution with an enrollment in excess of 43,000 students on the Gainesville campus and a member of the Association of American Universities.

**DUTIES AND RESPONSIBILITIES:** This is a 12-month non-tenure-accruing faculty position, available in the Advanced Computing and Information Systems Laboratory, Department of Electrical and Computer Engineering, University of Florida, with the possibility of extension for additional 12-month periods. The candidate will conduct research on distributed and autonomic computing, and develop cyberinfrastructure. The candidate will be responsible for a collaborative effort with The Children’s Hospital of Philadelphia in assessing both the capabilities of their existing software (and other related software) in addressing the requirements of a generally applicable evaluation framework, and the necessary refactoring and extensions of that software, including the introduction of easy-to-manage, adaptable features and/or development of linkages to existing software. The candidate will also be responsible for evaluation, development, implementation, and deployment of specific User-interface Management, Middleware, and Data Management technologies in conjunction with ACIS lab staff and collaborators, possibly using technologies such as Flex, WebOrb and NHibernate. He/she will investigate research problems in Internet-based systems, develop software using software-engineering best practices, publish peer-reviewed research articles in workshops, conferences and journals, evaluate existing technologies, supervise staff and graduate students, oversee development aspects of Web applications, cyberinfrastructure and application management, work with users to develop Cloud, Grid and Internet systems and collaborate with key academic researchers and open-source user communities including faculty, scientific researchers, and grant stakeholders. The candidate will teach and train students and non-technical personnel in his/her area of expertise, by conducting sessions, such as workshops and tutorials, as appropriate. The candidate will also be responsible for overseeing the development and integration of technical and educational documentation and its dissemination to students and external users through collaborative Web-accessible systems such as Wikis and Content Management Systems. Where documentation is already available from another source, the candidate will be responsible for checking its accuracy and completeness. The candidate will also be expected to produce reports on findings and recommendations as a result of his interactions with software stakeholders and end-users. These reports are needed to fulfill contractual obligations to funding agencies, and to inform non-technical managers and potential
technical collaborators. The candidate should be willing to travel in order to carry out his/her functions.

**BASIC QUALIFICATIONS:** A Ph.D. in computer engineering, computer science or a closely related field, with a strong background in distributed systems, performance evaluation, data-intensive processing, networking, security and storage systems, is required. Five or more years of practical experience are required involving all of the following: grid middleware, network intrusion protection, performance studies, and management of data. Evidence of research work should be supported by peer-reviewed journal publications and papers at international conferences on all of the following topics: a) Grid and distributed computing; b) networking; c) security; d) computing performance; and e) disk storage. Evidence of development and software based on research ideas, inter-disciplinary work and ability to adapt to and integrate user requirements and new technologies should be supported by activities in the last 5 years involving all of the following: Grid/Cloud distributed systems; databases such as MySQL, SQL Server, and JDBC; programming using Java, Perl and C++; the use of standard software engineering practices (including the use of requirements specification, software design tools, development environments, source code management systems and documentation); network programming (using TCP/IP, sockets and RPC); and the use of simulation technologies.

**HOW TO APPLY:** Interested persons are requested to submit the following items via online at https://jobs.ufl.edu/applicants/jsp/shared/Welcome_css.jsp: Requisition 0808887 (1) letter of application and curriculum vita; (2) statement of research interests and career goals; (3) official copies of university transcripts; (4) three letters of recommendation from individuals familiar with the candidate’s research ability, and 5) copies of one to three of the candidate’s most significant publications. All of the above items must be submitted by midnight, September 11, 2011. Nomination of candidates is encouraged. *Women and minorities are encouraged to apply.*

**Salary:** COMMENSURATE WITH QUALIFICATIONS AND EXPERIENCE