Title: Research Computing Specialist, Principal (HPC) – Job # S21319

Department: University Information Technology Services

Location: Main Campus

Position Summary:
Research Computing, within University Information Technology Services at the University of Arizona, is accepting applications for the position of Research Computing Specialist, Principal. Research Computing employs Research Computing Specialists in several areas of expertise. This position is in the area of High Performance Computing consulting. Primary responsibilities will be to assist researchers to use available UA HPC systems in support of their research projects.

The successful candidate will be a continuous learner, with abilities to effectively mentor and communicate HPC related information and knowledge to all levels of University researchers and staff, and work both independently and in teams to problem solve and provide insight and input into defining the future of UA Research Computing and High Performance Computing.

For information on current UA Research Computing and HPC resources and services refer to the website: http://rc.arizona.edu.

**UITS – Where We Put U First in IT:**

- UITS is a 300 plus-member service unit with a mission to support and enhance the University’s ability to fulfill its objectives by providing effective and efficient computing and communications solutions. UITS acts as a facilitator and proactive coordinator of integrative technology services for campus. We are committed to supporting a technological foundation that enhances learning, research and business, recognizing that to serve the campus well we must promote user self-sufficiency, easy access to information, and collaborative relationships with users.
- UITS supports and works collaboratively with all three communities of our campus: staff, faculty, and students.
- UITS is committed to high-quality, value-added services delivered through strong values of respect, integrity, and transparency.
- UITS provides two mission-critical IT components to the campus: Infrastructure & Client Services and Enterprise Applications.

Outstanding UA benefits include health, dental, and vision insurance plans; life insurance and disability programs; paid vacation, sick leave, and holidays; UA/ASU/NAU tuition reduction for the employee and qualified family members; state retirement plan; access to UA recreation and cultural activities; and more!

The University of Arizona has been recognized on Forbes 2015 list of America’s Best Employers in the United States and has been awarded the 2015 Work-Life Seal of Distinction by the Alliance for Work-Life Progress! For more information about working at the University of Arizona, please [click here](#).
**Duties & Responsibilities**

- Lead and provide support to researchers to use available UA HPC systems and resources.
- Lead and provide consulting with users to investigate, identify, and resolve UA HPC problems.
- Lead/mentor and coordinate Research Computing staff and Student Interns/Workers.
- Monitor, report and maintain UA HPC computing user environments – login nodes, storage, scheduling systems, software, licenses, and security.
- Create and maintain UA HPC documentation, user guides, FAQs.
- Identify users’ training needs; design and teach workshops as appropriate.
- Represent user interests by identifying user needs and recommending system policy changes in order to provide the highest level of user environment.
- Install and maintain user requested HPC software.
- Lead support for parallel and serial programming, libraries, utilities, code porting, debugging, and optimization.
- Lead application support appropriate to researchers’ projects, data analysis, and modeling requirements.
- Design, implement, and support new technologies and systems upgrades, replacements and acquisitions.
- Assist users with non-UA HPC resources, for example XSEDE Campus Champions.

**Minimum Qualifications**

- Directly related experience with scientific and HPC computing.
- Interpersonal and communications skills to provide consulting support to all levels of users.
- Ability to work independently.
- Ability to work within consulting and project teams.
- Ability to lead/mentor and coordinate Research Computing staff and Student Interns/Workers.

**Arizona Board of Regents Minimum Qualifications**

Master’s degree in any discipline requiring the use of advanced levels of computational methods and resources, three (3) years of applied research, and three (3) years of related practical research computing experience; OR, Doctoral degree in any discipline requiring the use of advanced levels of computational methods and resources, two (2) years of applied research, and two (2) years of related practical research computing experience; OR, Any equivalent combination of experience, training and/or education.

**Preferred Qualifications**

- Experience in scientific and HPC programming including:
  - Proficiency with Linux
  - Proficiency with common HPC scripting environments (for example: shell script bash, csh; Python, Perl, Java, R)
  - Proficiency with standard parallel APIs including MPI and OPENMP
  - Proficiency in programming HPC/parallel languages (for example: C, C++, Fortran, Python)
  - Proficiency in utilizing state-of-the-art HPC resources (for example CPU, GPU, and PHI)

**Full Time/Part Time**

Full Time
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<th><strong>Number of Hours Worked per Week</strong></th>
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<td><strong>Job Category</strong></td>
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<td><strong>Benefits Eligible</strong></td>
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<td><strong>FLSA</strong></td>
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<td><strong>Limited to Current UA Employees</strong></td>
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<tr>
<td><strong>Contact Information for Candidates</strong></td>
<td>Monica Piwowar Tacconi – <a href="mailto:tacconi@email.arizona.edu">tacconi@email.arizona.edu</a></td>
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<td><strong>Open Date</strong></td>
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