

UNIVERSITY OF ARIZONA
DEPARTMENT OF HUMAN RESOURCES
CLASSIFIED STAFF EMPLOYEE JOB DESCRIPTIONS

JOB CODE: 73102

TITLE: Research Computing Specialist, Principal

IT PAY BAND: B14

FLSA: Exempt

Purpose of Classification:

Consults with and assists researchers, students and staff in one or more of the following areas: highly complex research and statistical design and analysis; high performance and parallel computing; advanced scientific visualization and computer graphics; or the selection and use of current and emerging research technologies. Tutors and trains scientific researchers, staff and students regarding computing research resources.

Distinguishing Characteristics:

This is a specialized classification and not part of a series.

Example of Duties:

- Consults with researchers, students and staff regarding highly complex statistical techniques and software. Participates in the design, measurement, collection, sampling and statistical analysis of research data and results.
- Designs and analyzes specialized computer systems in support of highly complex research requirements, such as high performance and parallel computing technologies.
- Consults with researchers and investigates, implements and supports emerging and advanced computer graphics technologies, scientific visualization, 2D and 3D computer graphics and virtual reality systems.
- Analyzes research-related hardware and software requirements and recommends the acquisition and/or use of current and emerging technologies. Plans, designs, tests and implements new software programs and technologies to support research.
- Installs and implements highly complex operating and research-related applications systems. Troubleshoots workstation hardware and software problems.
- Tutors and trains researchers, staff and students regarding technology related to research design and methodologies.
- Coordinates activities with other units to meet research needs. May participate as a member of research teams.

Knowledge, Skills and Abilities:

- Knowledge of current and emerging computer operating systems, and research-related applications systems, software and hardware.
- Knowledge of scientific analysis and statistical methods.
- Skill in training others in the technical use of complex computer systems.

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- Skill in using and programming current and emerging computer operating and applications systems.
- Skill in computer related research design and statistical analysis.
- Skill in analyzing and recommending specialized computer systems in support of technical and scientific research.
- Ability to effectively communicate verbally and in writing.

Minimum Qualifications:

- Master's degree in Management Information Systems, Computer Science or the field of research AND four years of related research computing experience; OR,
- Doctoral degree in Management Information Systems, Computer Science or the field of research AND two years of related research computing experience; OR,
- Any equivalent combination of experience, training and/or education.

This description is intended to be generic in nature. It is not intended to determine specific duties and responsibilities of any particular position. Essential functions and overtime eligibility may vary based on the specific tasks assigned to the position.

Prepared: 05/01/09