Research Computing Specialist

**Definition of Class**
This is a professional position in which the incumbent exercises discretion and independent judgment in providing comprehensive technical support services for high performance computing, computational science and mass data storage. The incumbent leads context-specific teams to perform complex assignments, plans and recommends equipment and software acquisitions, develops and implements policies to optimize research productivity and provides advanced computational support to the research community.

**Examples of Work Performed**
Provides advanced technical support to HPC users and assists researchers in using the capabilities of MCSR to the best advantage.

Establishes new user accounts on HPC platforms.

Diagnoses and trouble shoots user connection problems.

Compiles, tests and optimizes the performance of serial and parallel applications, including applications with extensive library dependencies, on HPC platforms.

Maintains web-based documentation of MCSR systems and software applications.

Designs, maintains and supports software systems for mass data storage and retrieval.

Identifies research projects and that can benefit from MCSR participation.

Builds multi-institutional, interdisciplinary consortia of researchers to explore collaborative opportunities and writes competitive grant proposals.

Develops and conducts both live and web-based user training workshops on HPC topics.

Participates in short and long-term planning, devises outreach strategies, develops and implements policies to optimize research productivity.

Participates in cooperative scientific research and oversees student research efforts.

May be required to teach undergraduate and/or graduate college courses on computational topics, as required or assigned.

Performs related or similar duties as required or assigned.

**Essential Functions**
These essential functions include, but are not limited to, the following. Additional essential functions may be identified and included by the hiring Department.

1. Provides front line, advanced technical support to HPC users.
2. Installs, maintains and supports scientific software applications.

3. Creates and conducts both live and web-based user training workshops regarding HPC topics.

4. Leads and participates in collaborative efforts to secure external funding.

5. Designs, maintains and supports software systems for mass data storage and retrieval.

6. Develops and implements policies to optimize research productivity.

7. Participates in design and execution of cooperative scientific research projects.

**Minimum Qualifications**
These minimum qualifications have been agreed upon by Subject Matter Experts (SMEs) in this job class and are based upon a job analysis and the essential functions. However, if a candidate believes he/she is qualified for the job although he/she does not have the minimum qualifications set forth below, he/she may request special consideration through substitution of related education and experience, demonstrating the ability to perform the essential functions of the position. Any request to substitute related education or experience for minimum qualifications must be addressed to the University of Mississippi’s Department of Human Resources in writing, identifying the related education and experience which demonstrates the candidate's ability to perform all essential functions of the position.

**Physical Requirements:** These physical requirements are not exhaustive, and additional job related physical requirements may be added to these by individual agencies on an as needed basis. Corrective devices may be used to meet physical requirements.

- **Physical Exertion:** The incumbent may be required to lift up to approximately 25 pounds.

- **Vision:** Requirements of this job include close vision and color vision.

- **Speaking/Hearing:** Ability to give and receive information through speaking and listening.

- **Motor Coordination:** While performing the duties of this job, the incumbent is frequently required to sit; and to use hands to finger, handle or feel objects, tools, or controls. The incumbent is occasionally required to stand or walk; and to reach with hands and arms; and to stoop, kneel, crouch or crawl; and to climb or balance.

**Experience/Educational Requirements:**

- **Education:**
  Masters degree in Computer Science, Mathematics, Chemistry, or a related field from an accredited college or university.

  **AND**

- **Experience:**
  Two (2) years experience related to the above described duties.

**Substitution Statement:**
Related experience may be substituted for education, on a basis set forth and approved by the Department of Human Resources.

**Interview Requirements**
Any candidate who is called for an interview must notify the Department of Human Resources in writing of any reasonable accommodation needed prior to the date of the interview.

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