

## **Research Analyst 4, Advanced Materials Science and Engineering Center (AMSEC)**

### **About the Position:**

The Research Analyst 4 performs assigned tasks of the highest specialized and technical level with total responsibility for determining method of development, design, analysis and coordination of complex research projects and studies regarding various characteristics.

This position is part of a Public School Employees of WWU bargaining unit. New employees are required to meet the membership requirements of the current collective bargaining agreement within 30 calendar days of employment.

**Department:** Advanced Materials Science and Engineering Center

### **About the Department:**

The [Advanced Materials Science and Engineering Center \(AMSEC\)](#) is a \$1.2M program founded in 2007 whose mission is to educate students, promote interdisciplinary research, and help regional companies solve their materials science and engineering challenges. AMSEC brings together faculty and students from Chemistry, Engineering Technology, Geology, and Physics to facilitate interdisciplinary collaborations and synergistic solutions to complex, multifaceted problems.

### **Position Responsibilities:**

- Regularly assign, instruct and check the work of others including faculty, graduate, and undergraduate students
- Under administrative direction, independently develop technical work methods in production of projects and analyses of research data including effective teaching and research practices
- Determine the development, design, implementation, maintenance and modification of complex research projects
- Under administrative direction, interact with companies and other AMSEC clients using AMSEC equipment and other resources for testing, research and development purposes, carrying out scientific and engineering measurements
- Independently plan and execute chemical and physical analyses using a variety of instrumentation
- Communicate with companies and other AMSEC clients concerning AMSEC policies and procedures
- Maintain, operate and schedule a wide variety of advanced instrumentation as required to meet the teaching and research needs of the University which can include:
  - Differential scanning calorimeter
  - Thermal gravimetric analyzer
  - X-ray diffractometer
  - Vacuum coating systems
  - Inductively-coupled plasma mass spectrometer
  - Optical, Electron, and Scanning probe microscopes
  - Optical and Mass spectrometers
  - Liquid and gas chromatographic systems

- Perform highly specialized complex activities in planning, directing and coordinating project requirements
- Organize and collaborate with programmers, scientists, systems analysts, budget analysts and other personnel to coordinate activities
- Devise and assure the design, performance and review of various project outcomes and objectives involving characteristics such as students, instruction, faculty, finances, budget, physical plant, etc
- Analyze reports and other materials prepared by other research groups or organizations
- Establish project data requirements and collection methods
- Establish research and teaching priorities to ensure the proper use, maintenance and scheduling of advanced instrumentation
- Develop technical work and applications in the production of projects, acquisition, and analyses of research data in both fundamental and applied science
- Provide both traditional and on-line materials in support of research and teaching activities

**Required Qualifications:**

- Bachelor's Degree including college-level course work in a science or technical discipline
- Two years of work experience performing specialized and technical tasks for research projects **or** equivalent education/experience
- Working knowledge of error analysis in the physical sciences

**Preferred Qualifications:**

- Experience with instrumentation software
- College-level course work in a science or technical discipline
- Ability to work with diverse groups
- Ability to communicate with students, faculty, staff and outside organizations

**Salary:** The starting salary range for this position is \$3391 - \$4453 depending on qualifications and experience and includes an excellent benefits package

**Bargaining Union:** PTE

**Application Instructions and Requested Documents:**

Please log in below and submit your application via WWU's Electronic System for Employment (EASE). <http://www.acadweb.wvu.edu/hr/Employment/index.shtml>

A cover letter and resume are required and should address your experience related to the position responsibilities and the required and preferred qualifications. You may cut and paste your resume and cover letter as noted on the EASE application.

Please complete the education and work experience section of the EASE application and submit the names and contact information of three professional references.

**Other Information:**

Learn more about Why People Choose WWU As Their Employer of Choice  
Please review the Conditions of Employment

**Closing Date Notes:** Application review begins July 25, 2008; position is open until filled