Job Title: Beamline Engineer –Job ID: 58674 MU Human Resources

Location: Columbia, MO

Hiring Department

Research Reactor

MURR's reactor is the highest-power university research reactor in the United States, operating at 10 megawatts, 6.5 days a week and 52 weeks a year. The MURR facility enables research across many disciplines – from investigating ancient cultures to studying biological or quantum materials and developing radiopharmaceuticals that have lifesaving clinical applications. The MURR facility is a reliable resource for researchers, scientists, engineers, and students nationwide.

Job Description

The University of Missouri Research Reactor (MURR) is searching for a motivated engineer to join the growing Neutron Scattering group to help maintain and expand the neutron scattering capabilities. MURR is the largest neutron source (10 MW) on a U.S. campus and is well-suited for neutron scattering research. The Neutron Scattering group at MURR currently operates four instruments for the study of structure and dynamics studies in matter: a triple-axis spectrometer (TRIAX), a reflectometer (GANS), and two powder diffractometers (PSD and 2X-C).

This position will be expected to provide technical support on neutron scattering instrumentation, instrument control, and supporting equipment such as low temperature sample environments. This work will largely be focused on maintaining operations of and advancing capabilities on the four neutron scattering instruments at MURR and other beam port equipment in conjunction with neutron scattering scientists. Active efforts are envisioned to upgrade current instruments and build one or more new instruments on the MURR beam lines.

Key Responsibilities Include:

Implement and troubleshoot electromechanical control for neutron scattering instrumentation. Maintain and extend instrument control software interfaces for neutron scattering instrumentation.

Participate in development of new experimental capabilities for beam lines, including the design and construction of new neutron scattering or other beam line instruments.

Design and model shielding and other neutron scattering instrument components.

Assist in maintenance of ancillary equipment (esp. closed-cycle cryogenic systems) for beam line experiments. Assist in mechanical support for neutron scattering instruments.

Successful candidates will be persuasive communicators with exceptional organizational and time management skills. They must demonstrate the following durable skills: leadership, character, collaboration, communication, creativity, critical thinking, mindfulness, growth mindset, and fortitude. Additionally, customer service, confidentiality, integrity, and a commitment to university values in their activities.

Shift

Monday - Friday 8:00 a.m. - 5:00 p.m.

Minimum Qualifications

A Bachelor's degree from which comparable knowledge and skills can be acquired is necessary

Preferred Qualifications

Experience with electromechanical control and/or with radiation detection systems is highly desired. Software and programing skills are required. The ability to work in a team environment, strong organizational skills, and effective communication are essential.

Anticipated Hiring Range

Salary Range: $65,000 to $85,000 annually Grade: GGS-10

University Title: ENGINEER I

Internal applicants can determine their university title by accessing the Talent Profile tile in myHR.

Community Information

Columbia offers small-town friendliness with big city features and a high quality of life for people of all ages and interests. Founded on education and known as an ideal college town, its location also makes it an attractive spot for businesses and travelers. Located on Interstate 70 and U.S. Highway 63, Columbia is right in the middle of the state and the nation. Just a couple hours' drive from St. Louis and Kansas City, Columbia is Boone County's largest population center offering big-city culture, activities, and resources with a low cost of living. Columbia is home to a variety of restaurants and entertainment venues and hosts more than a dozen cultural festivals each year. If you want to grow your career, continue your education, raise a family, and retire, Columbia is a good place to be!

Benefit Eligibility

This position is eligible for University benefits. As part of your total compensation, the University offers a comprehensive benefits package, including medical, dental and vision plans, retirement, paid time off, short- and long-term disability, paid parental leave, paid caregiver leave, and educational fee discounts for all four UM System campuses. For additional information on University benefits, please visit the Faculty & Staff Benefits website at https://www.umsystem.edu/totalrewards/benefits

Values Commitment

We value the uniqueness of every individual and strive to ensure each person's success. Contributions from individuals with diverse backgrounds, experiences and perspectives promote intellectual pluralism and enable us to achieve the excellence that we seek in learning, research and engagement. This commitment makes our university a better place to work, learn and innovate.

In your application materials, please discuss your experiences and expertise that support these values and enrich our missions of teaching, research, and engagement.

Equal Employment Opportunity

The University of Missouri System is an Equal Opportunity Employer. Equal Opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and competence without unlawful discrimination on the basis of their race, color, national origin, ancestry, religion, sex, pregnancy, sexual orientation, gender identity, gender expression, age, disability, or protected veteran status, or any other status protected by applicable state or federal law. This policy applies to all employment decisions including, but not limited to, recruiting, hiring, training, promotions, pay practices, benefits, disciplinary actions and terminations. For more information, visit https://www.umsystem.edu/ums/hr/eeo or call the Director of Employee and Labor Relations at 573-882-2146.

To request ADA accommodations, please call the Director of Accessibility and ADA at 573-884-7278.