

X-Ray Crystallographer Research Faculty Position



Chemistry

Job Description

The Department of Chemistry at Middle Tennessee State University (MTSU) seeks a dedicated X-ray Crystallographer to operate and maintain a Rigaku Supernova single-crystal X-ray diffractometer (SCXRD). This 12-month, non-tenure-track, faculty member will fulfill a primarily research service role, with the opportunity for independent research as time permits. Start date for the position may be as early as July 1, 2019.

Essential Functions

- Provide operational management for the Rigaku Supernova SCXRD instrument ensuring customer satisfaction with service, and working with customers on the best use of the facility in their research.
- Manage the day to day maintenance of the X-ray instrument and associated equipment, specifically routine monitoring, calibration, and troubleshooting, including the computers and software.
- Perform service analysis of samples submitted by members of the University community. Be available during normal business hours to collect and analyze data and/or supervise and assist trained users.
- Provide CSD deposit-ready data to customers.
- Train students, faculty, and other customers in quality crystal preparation, analysis, and interpretation.
- Maintain records on instrument usage and data.
- Carry out research in collaboration with internal and external customers and attract external users and collaborators.
- Collaborate with the research user group and partners to grow the facility, including educational and outreach activities.
- Teach one (1) course per semester.

Required Education and Experience

- M.S. in Chemistry or closely related field
- One year experience with small molecule X-ray crystallography.

Other Desirable

- Applicants with a PhD, teaching experience, and/or experience leading academic research will receive special consideration.

Salary and Benefits

Salary commensurate with education and experience. Additionally, MTSU provides its employees with a comprehensive benefits package that includes the following:

- Health, dental, vision and life insurance as well as several other optional benefit plans
- Retirement savings programs that include your choice of two plans as well as three deferred compensation savings plans; mandatory 5% employee contribution
- An Employee Assistance Program
- Educational Assistance Programs
- Sick leave

Instructions to Applicants

Applications must be submitted through <https://mtsujobs.mtsu.edu/>. Applicants are required to include a Cover Letter, Curriculum Vitae, and a statement of Teaching Philosophy at the time of online application. Application/documents received by the review date will receive full consideration; however, the posting remains open and applications MAY BE submitted until the position is filled. If you need assistance in applying, please contact the Faculty Recruitment Specialist at 615-898-5128. If you have position-specific questions, please contact Dr. Greg Van Patten at Greg.VanPatten@mtsu.edu.

Additional Information

Located just south of Nashville in the rapidly growing city of Murfreesboro, MTSU has over 21,000 students. The Chemistry Department (www.mtsu.edu/chemistry) is located in a new (2014) 250,000 sq. ft. science building and associated renovated science complex (2016). The department has 34 full-time faculty members, and participates in three interdisciplinary Ph.D. programs that are moving the university toward a more research-rich environment: Molecular Biosciences, Computational Sciences, and Mathematics & Science Education. The department offers a M.S. degree in Chemistry and three undergraduate B.S. degrees in Biochemistry, Chemistry, and ACS-accredited Chemistry.