Department of Microbiology and Molecular Genetics
Michigan State University

Research Associate

The Department of Microbiology and Molecular Genetics is seeking a post-doctoral Research Associate. This position is available in the lab of Dr. Thomas V. O’Halloran to study inorganic phenotypes and the effects of metal ion fluxes on cell physiology and on cell cycle progression in a variety of cell and tissue types.

Position Summary
A Research Associate (Post-Doc) position is available in the laboratory of Dr. Thomas V. O’Halloran in the Department of Microbiology and Molecular Genetics at Michigan State University. The position is available starting as soon as possible. The project involves evaluation of inorganic phenotypes, metal ion receptors and regulatory roles of metal ion fluxes on cell cycle progression in microbes as well as plant and animal tissues. Several studies will focus on the zinc physiology of cells involved in plant and animal reproduction. In addition, this position will also involve work on collaborative projects in NIH and foundation-based center grants at MSU, Northwestern, and Argonne National Labs. The applicant must have a PhD in the area of biochemistry, chemistry, microbiology or a related field with a strong background in elemental analysis and bioinorganic physiology. Strong quantitative and communication skills are required. The applicant is expected to design and conduct experiments independently and clearly document results for use in presentations, manuscripts and grants. Experience working with animals is desirable. This is a full-time, 12-month fixed-term position with reappointment contingent on satisfactory performance and available funding.

Equal Employment Opportunity Statement
All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, disability or protected veteran status.

Minimum Requirements
The applicant must have research experience in biology appropriate for work in a biochemistry lab and hold a PhD in a field related to Chemistry, Biology, Chemical Biology, Biochemistry, Microbiology, Cell Biology, or related field. Co-authorship of peer reviewed scientific publications is required.

Desired Qualifications
Experience in several of the following areas is desired: chemical synthesis, elemental analysis, reproductive, mammalian cell biology, chemical biology, animal models, microbiology, microscopy and/or molecular biology. Experience with advanced confocal, ICP-MS or electron microscopy instruments as well as experience working with animals desired. Strong writing, presentation and leadership skills, as well as the ability to work well in a team, are additional important qualities in a successful applicant.

Required Application Materials
Interested applicants should submit a cover letter explaining their scientific interests, qualifications, career goals and a description of prior research, curriculum vitae, and the names and contact information of three references to http://careers.msu.edu posting #692805.

Summary of Health Risks
Health risks associated with this position may include: Exposure to human blood, serum and tissue typical of work with animals or microbial cells. Work may involve animals, unfixed animal tissue
or chemicals involved in synthesis of fluorescent probes. Risks that have been identified by Environmental Health and Safety. May have to wear a Respirator.

**Website**
https://mmg.natsci.msu.edu/

**MSU Statement**
Michigan State University has been advancing the common good with uncommon will for more than 160 years. One of the top research universities in the world, MSU pushes the boundaries of discovery and forges enduring partnerships to solve the most pressing global challenges while providing life-changing opportunities to a diverse and inclusive academic community through more than 200 programs of study in 17 degree-granting colleges.