KU
THE UNIVERSITY OF KANSAS

Microscopy Lab Director

The University of Kansas, Lawrence, KS, invites applications for the full-time position of **Microscopy Lab Director**. This position is responsible for the leadership of the Microscopy and Analytical Imaging Laboratory to ensure a commitment of excellence and advancement of imaging related capabilities consistent with the University of Kansas' research mission and serves at the pleasure of the Vice Chancellor of Research.

JOB DESCRIPTION

Management of MAI Laboratory—70%

- Consults with MAI users about project goals and expectations, experimental design, project timeline, and associated costs and fees.
- Engages in methods development, conducts imaging and spectroscopic experiments, and performs data analysis for active MAI laboratory projects. Supervises laboratory staff and KU investigators and students conducting similar studies using MAI instrumentation and resources. Provides regular updates to clients on the status of ongoing experiments.
- Establishes and maintains a priority and status list of active and upcoming MAI projects, and coordinates staff assignments to ensure timely project completion.
- Conducts regular annual evaluations of staff.
- Trains and ensures technical proficiency of staff members.
- Assists and supervises the training of MAI investigators and students working in the imaging laboratory.
- Develops partnerships with external academic and/or corporate researchers requiring the microscopy and imaging capabilities of the laboratory.
- Manages, conducts and oversees general maintenance, repair, and calibration on all MAI-associated instrumentation and equipment.
- Manages laboratory resources and finances in a manner consistent with established KU business practices. Works effectively with laboratory and KU Research Office staff to provide oversight of routine administrative operations; budgeting; ordering supplies; and billing for services.
- Works effectively with laboratory and KU Research Office staff to ensure timely generation of appropriate service agreements, memoranda of understanding, and confidentiality agreements.
- Works effectively with KU Research Office personnel on budget management and rate setting activities.
- Ensures compliance with Environmental Health and Safety regulations.
- Maintains scientific content on the MAI Laboratory web site.
- Coordinates the preparation of annual reports, five-year review materials, and other supporting materials as requested by KU Research Office leadership.

Scientific Research and Leadership—20%

- Provides leadership for an imaging facility serving a vigorous, diverse research portfolio applying imaging techniques to biological and material science problems. This includes incorporation of innovative analytical methodology, equipment, and techniques to best serve the MAI user community.
- Facilitates and, when appropriate, leads the development of research proposals through accurate, timely, and concisely written contributions describing MAI laboratory services and capabilities. Facilitates the submission of research proposals focused on the acquisition of new or upgraded equipment for the MAI laboratory.
- Generates a culture of continuous improvement in the scientific, outreach, and safety aspects of laboratory operation.

Service and Development—10%

- Actively participates in the activities of the University including, but not limited to, participation in scientific seminars, collaboration with other KU scientists on the preparation of research grants, and presentation of scholarly work in appropriate local, regional, and national settings.

REQUIRED QUALIFICATIONS

Evaluation of the following requirements will be made through (1) descriptions of educational and professional experiences in letter of application, (2) record of accomplishments and productivity addressed in curriculum vitae, and (3) information provided from professional references:

1. Earned doctorate in an appropriate area of Science or Engineering related to imaging.
2. Prior experience with oversight and supervision of scientific personnel.
3. Three or more years of hands-on experience performing imaging work with either biological or materials science related specimens.
4. Familiarity with the needs of investigators conducting either biological science or materials based research.
5. Familiarity with laboratory budget management.
6. Excellent written, verbal, and interpersonal communication skills
7. Ability to get along with others and work effectively in a collegial environment.

For appointment as Senior Research Scientist, Director, all of the above including:

1. A record of success in assisting or securing external funding from federal agencies to sustain a research program.
2. A record contributing to publications in the field.

PREFERRED QUALIFICATIONS

1. Three years of postdoctoral professional expertise, including the publication of research employing techniques such as spectroscopy, electron microscopy, and atomic force microscopy for the imaging of biological and other materials (nanostructures, catalysts, etc.).
2. Supervisory experience in an imaging laboratory employing multiple instrumental methods.
3. Publications in leading peer-reviewed journals that deal with subjects relevant to the MAI Lab such as spectroscopy, electron microscopy, atomic force microscopy, and other methods of imaging of biological and other materials (nanostructures, catalysts, etc.).
4. Prior experience with authoring and submitting NIH, NSF, or similar research grant applications employing microscopy and imaging tools and methods, and the management of such grants once awarded.
5. Demonstrated capability to help investigators adapt various imaging techniques to solve specific scientific problems.

ADVERTISED SALARY RANGE:
Commensurate with experience

INITIAL REVIEW DATE:
Review of application materials begins May 1, 2014 and continues as long as necessary to collect a qualified pool of applicants.

TO APPLY, go to **https://employment.ku.edu** and search on "Faculty/Academic Staff Jobs," then search under key word "microscopy lab director."

KU is an EO/AAE. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or protected Veteran status.

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Senior Research Scientist

Soldier NanoMaterials

US Army Natick Soldier Research, Development & Engineering Center

The US Army Natick Soldier Research, Development & Engineering Center is seeking to fill a highly prestigious **Senior Research Scientist (Soldier NanoMaterials)** position. This position serves as the senior technical expert in advanced materials technology including Nanoscience and Nanotechnology and leads fundamental research in new and novel materials involving exploitation of polymer science and engineering, nanotechnology, advanced fiber, and textile science, and other specialties within materials science, including biomaterials such as biomimetics.

The position involves discovery of novel combinations of natural and synthetic polymers to address Soldier domain problem areas and providing advice and consultation on research problems related to the creation, development, and exploitation of advanced materials technology for future Soldier Systems. This position contributes to research innovation by personally sponsoring visiting scientists, and in general, encouraging collaboration with academia, industry, and other government agencies. As the foremost technical leader in Soldier NanoMaterials, you will represent and leverage all relevant research in government, academia, and industry in order to deliver operational and effective technical solutions. As the Army's Senior Research Scientist for Soldier NanoMaterials, you will provide mentoring, consultations, and stewardship for the creative technical pursuits of Army scientists and researchers in this dynamic field.

The position communicates research through publications and presentations, nationally and internationally. The typical salary range is $120,749 to $167,000, and the position is located in Natick, Massachusetts.

QUALIFICATIONS: Possession of a graduate degree, particularly at the doctoral level, is preferred or equivalent experience with substantial background and experience in nanotechnology, preferred experience in nanocomposites and bionanocomposites in polymeric matrices due to the mission in flexible textiles, with significant experience in the conduct of independent research as indicated by a strong record of publishing.

For more information about the position, go to https://www.usajobs.gov (Announcement Number: DA-14-TLM-1095045).

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Professor of Mechanics

The Department of Mechanical and Process Engineering (www.mavt.ethz.ch) at the ETH Zurich invites applications for a full professorship in Mechanics.

The new professor is expected to establish a strong research program in solid mechanics, with an emphasis on time dependent phenomena. Possible research areas include non-smooth mechanical systems, fracture and high-rate deformation, time- and history-dependent mechanical behavior of materials, soft-materials, computational mechanics, and mechanics of multi-body systems. The focus may be on theoretical or computational aspects and the research program is encouraged to include collaborations with the private sector. Teaching duties include introductory courses (German or English) and advanced courses (English) in mechanics, for students in Mechanical and Process Engineering, Civil Engineering, and Information Technology and Electrical Engineering.

The successful candidate must have a strong research background and excellent track record in Mechanical Engineering or related areas, with a PhD degree and subsequent research activities in mechanics. Furthermore, the candidate should have teaching experience.

Please apply online at www.facultyaffairs.ethz.ch

Applications should include a curriculum vitae, a list of publications, and a statement of future research and teaching interests. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 15 August 2014.** ETH Zurich is an equal opportunity and family friendly employer and is responsive to the needs of dual career couples. We specifically encourage women to apply.

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