

2015 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
December 21, 2015

For full schedule, including Center events, please see the Department Calendar:
<http://www.chemistry.northwestern.edu/events/calendar.html>

Announcements

The Chemistry Department main office will be renovated over the holiday break. Beginning on December 15th you will be able to find us in the following locations:

Tech M192: Jonathan Maendel, Laura Makinen, Lee Copeland, Ilene Tokarz

Tech M116: Jill Johnson, Danny Fisher

Tech M292: Gerri Pipersburgh

All phone extensions will remain the same.
We hope to be back in Tech K148 by January 4th.

BIP

First BIP for 2016 will be on January 8th
Every Friday in Tech K140 10-11:00am

Arrivals

Weijun Ke joined the Kanatzidis Group

Opportunities

Brewer Science would like to share two positions we have open . Applicants can apply at www.brewerscience.com

Brewer Science, Inc., a major innovator of high-technology solutions for the semiconductor / microelectronics markets is currently seeking a highly motivated and energetic candidate's to fill an open position for an Analytical Research Associate II. This position is located in Rolla, MO.

Summary: Designs and conducts laboratory experiments, analyses, and processes to support research and development projects.

Responsibilities:

- Takes ownership of small development sub-projects as assigned.
- Designs and conducts experiments, including synthesis, sample preparation, and performance characterization, under minimal supervision.
- Processes data and provides analysis summary and may present results at group meetings.
- Creates new testing processes and improves upon current processes.
- Knowledge and understanding of safety and housekeeping standards and practiced in daily activities.
- Learn and keep familiar with lab procedures.

- Keep a well-documented laboratory notebook and have it co-signed within two weeks.
- Responsible for communicating with supervisor and team members, also may be assigned to cross-functional teams.

Credentials and Education

- Bachelor's Degree preferred or
- Equivalent combination of education and related experience.
- Familiarity and experience with HPLC, GC, FTIR, UV-VIS, and/or TGA, DSC,

Application Process: To apply for this position, please complete the online application. This position is open until filled, screening will begin immediately.

Equal Employment Opportunity - M/F/Disability/Veterans

The C. Eugene Bennett Department of Chemistry at West Virginia University seeks a strong leader to serve as Department Chair in the Eberly College of Arts and Sciences. The College has invested heavily in the hiring of new faculty in Chemistry, and is looking for a Chair to lead this successful department to greater national prominence. This is a tenured faculty position at the rank of Professor or Associate Professor, depending on background and experience of the applicant.

The Department Chair is part of the leadership team of the Eberly College of Arts and Sciences. The Chair will be expected to promote principles of shared faculty governance, foster a transparent culture that values and seeks input from all stakeholders, and facilitate professional development of faculty, students, and staff and guide the department to increased research activity and competitiveness. The Chair will provide responsible and professional leadership in managing the day-to-day operational needs of the department, including fiscal management, hiring and supervision of staff, evaluating faculty, and allocating facilities and equipment for teaching, research, and service activities.

The Department of Chemistry consists of 21 tenured and tenure-track faculty, 9 teaching faculty, 13 staff members, and about 70 graduate students. The department is divided into four divisions representing the traditionally defined fields of chemistry: Organic, Inorganic, Analytical, and Physical. Current department research interests include mass spectrometric characterization of proteins and peptides, supramolecular systems, micro-fluidics, fuel cells, synthesis of novel organic and inorganic molecules, catalysis, medicinal chemistry, formation and manipulation of nanostructures, toxicology, disease related protein aggregation, separations, heavy metals in the environment, chaotic systems, nonlinear systems, surface characterization, chemical education, and forensic science.

WVU is a comprehensive land grant research institution located within 1 hour of Pittsburgh and 3 1/2 hours of the Washington/Baltimore area. Morgantown has been recognized as one of the most livable small cities in the U.S. There are extensive recreational opportunities, affordable housing, and a supportive environment to develop a visible and productive career. The Department website <http://chemistry.wvu.edu/> contains further information regarding research and the undergraduate and graduate programs. We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners.

Qualifications include a Ph.D. or equivalent degree in chemistry or a relevant related field; evidence of successful administrative leadership; knowledge of research and educational trends in the discipline of chemistry; ability to work collaboratively in a diverse environment with a range of students, faculty, administrators, and external constituents; ability to manage budgets and establish fiscal priorities; strong written and oral communication skills; and an established record of successful teaching and externally funded research that will merit a grant of tenure at WVU.

To apply for this position, visit <http://jobs.wvu.edu>, navigate to the position title listed above, and submit (as a single PDF document) (a) a letter of application outlining your administrative experience and interest in this leadership position, your approach to managing your leadership role relative to research and teaching, and your philosophy of graduate and undergraduate education; (b) curriculum vitae; and (c) contact information for at least three references who may speak to your skills in leadership and management. Applications will be processed until the position is filled but those received by February 15, 2016 will receive priority consideration. Preferred start date of July 1, 2016 is negotiable. For further information, contact Associate Dean Tracy.Morris@mail.wvu.edu.

WVU is an EEO/Affirmative Action Employer and welcomes applications from all qualified individuals, including minorities, females, individuals with disabilities, and veterans.

The Department of Chemistry at the Illinois Institute of Technology is looking for a part-time adjunct instructor for Spring 2016 semester, to teach CHEM 520 Advanced Inorganic Chemistry at the graduate level. Previous teaching experience is preferred. Please send your CV to: chemistry_search@iit.edu
The course description follows:

CHEM 520 Advanced Inorganic Chemistry

Selective treatment of the chemistries of main group and transition elements with emphasis on coordination complexes, organometallic compounds and inorganic cages and clusters. Discussions of molecular symmetry, stereochemistry, bonding, electronic spectra, magnetic properties, reactions, kinetics and reaction mechanisms are included.

The University of Arizona's College of Science and College of Medicine are committed to building and maintaining a world class Department of Chemistry and Biochemistry. We thus seek applications from PhD scientists for tenure-eligible faculty positions beginning Fall 2016.

Applicants with research and teaching interests in all areas of biochemistry, biological mass spectrometry, and bio-inorganic chemistry broadly interpreted, will be considered. The rank of these positions is open. Candidates at the rank of Assistant Professor will be expected to establish and maintain a successful, independent research program. Applicants with highly visible, externally funded research programs will be considered for appointments at the rank of Associate or Full Professor. To apply, please submit a Letter of Interest, Curriculum Vitae, and Statements of Research Interests and Teaching Philosophy online at <http://uacareers.com/postings/6789> (Posting #F20281)

Contact information for references will be required to collect three reference letters. The University of Arizona seeks people with diverse perspectives and experiences and is a committed Equal Opportunity/Affirmative Action organization. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. As an Employer of National Service, we also encourage applications from alumni of AmeriCorps, Peace Corps, and other national service programs. The Immigration Reform and Control Act requires that new employees have proof of authorization to work in the U.S.A. *Please visit the Department of Chemistry & Biochemistry website:* <http://cbc.arizona.edu/>

Postdoctoral positions at NIH The Optical Spectroscopy Section, LMB/BBC, NHLBI/NIH, is seeking two postdoctoral fellows (IRTA fellows or VF, see www.nih.gov for details)

Position#1 is available immediately. We need someone with extensive biochemical/cell biology expertise in the fluorescence microscopy sphere to help us apply new probe methods for superresolution (“STAQ: a route toward low power, multicolor nanoscopy”) and intracellular [O₂] sensing (using, e.g., our Mb-mCherry chimera). Probe development, labeling and transfection skills esp. valued, along with protein purification/plasmid prep.

Position#2 will be available early in the spring, and will select someone skilled in the instrumental aspects of lasers and fluorescence spectroscopy in the microscope. We do FLIM, 2pFCS, RICS, STED (and related STAQ), regular and spectral-focusing CARS, and combinations thereof. Laser jockeys, optics tinkerers and coding honchos welcomed.

Mallinckrodt Institute of Radiology As part of a team comprising interdisciplinary scientists, **two post-doctoral positions** are available: A) **Synthetic organic chemistry** with emphasis on heterocyclic chemistry, inorganic biochemistry, and PET/SPECT Radiochemistry to develop molecules for biomedical imaging and therapeutic applications; and B) **Biochemist** with expertise in conceiving and executing cellular bioassays, histochemistry, pharmacokinetics, and receptor ligand binding assays, **preferably with working experience in handling of rodents**. Candidates with competitive credentials and track records are strongly encouraged to apply. Applicants with previous experience in applied sciences but not beyond a year of postdoctoral experience will be considered more desirable candidates.

For immediate consideration, please send a cover letter and resume with contact information for three references to:

Prof. Vijay Sharma, Mallinckrodt Institute of Radiology, Box 8225, Washington University Medical School, 510 S. Kingshighway Blvd., St. Louis, MO 63110, USA; Email: sharmav@mir.wustl.edu. Please note that e-mail is a preferred mode of communication.

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at [participating federal laboratories and affiliated institutions](#). These awards include generous stipends ranging from \$42,000 - \$80,000 per year for recent Ph.D. recipients, and higher for additional experience. [Graduate](#) entry level stipends begin at \$30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.

Detailed program information, including online applications, instructions on [how to apply](#) and a [list of participating laboratories](#), is available on the NRC Research Associateship Programs [Website](#) (see link above).

Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu. There are four annual review cycles.

Review Cycle: **February**; Opens December 1; Closes February 1

Review Cycle: **May**; Opens March 1; Closes May 1

Review Cycle: **August**; Opens June 1; Closes August 1

Review Cycle: **November**; Opens September 1; Closes November 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities. More detailed information and an online application can be found at www.nationalacademies.org/rap.