

2016 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
January 18, 2016

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

Tuesday January 19th: *Faculty Lunch Seminar: Tom Meade*
Tech K140
12:00 – 1:00pm

Thursday January 21st: *Department of Chemistry Colloquium:*
Wei Min, Columbia University
Tech L211
4:00 – 5:00pm

Friday January 22nd: 2016 L. Carroll King Lectures:
Thomas Holme, Iowa State University
Tech LR3
4:00 – 5:00pm

BIP

BIP every Friday in Tech K140 10-11:00am

Arrivals

Kyung Yeon Lee joined the Farha Group
Carla Pereira joined the Hupp Group
Gang Wang joined the Marks Group

Opportunities

Summer Research Internship Opportunity at Rush University Medical Center:

Professor at Rush University Medical Center here in Chicago is looking for a talented undergraduate student for a summer research internship. Students can be at any stage in their studies, but must be excellent at math and physics or chemistry and have an interest in doing modeling research on a nanotechnology problem. The work will involve writing simple programs in Mathematica and analyzing the results, as well as learning the underlying mathematics/physics/chemistry. Calculus and linear algebra (matrices) are required. Prior programming experience, especially using Mathematica, are strongly preferred.

Stipend is \$3500 for the summer. Please send a paragraph about any previous experience and career goals (no experience, then describe your relevant academic background and how this relates to your academic/career goals), copy of (unofficial) transcript, and the name and email address of a professor who knows you to Dirk Gillespie (Dirk_Gillespie@rush.edu) by **31 January 2016**.

Lyman Briggs College (LBC) at Michigan State University (MSU) invites applications for an academic year chemistry faculty position in the Academic Specialist Appointment System to join the college's chemistry group in August of 2016. The successful candidate will teach introductory undergraduate chemistry lectures and teach and supervise associated general chemistry laboratories.

Candidates must be committed to undergraduate teaching and should have a master's degree or Ph.D. in chemistry or chemical education in hand by August 15, 2016. The position requires expertise and/or teaching experience in general chemistry lecture and laboratory experiences. The successful candidate will be committed to advancing excellence in the teaching of introductory courses in general chemistry and will join the college's ongoing efforts to reform undergraduate STEM education. Experience with instructional strategies that engage students in active learning is especially desirable. The ideal candidate should have disciplinary or pedagogical research interests in Chemistry or Chemical Education. A flexible and scholarly approach to teaching students and mentoring student employees is essential. The ideal candidate will be able to work with and encourage a diverse student body. The position offers exciting opportunities for individuals interested in teaching in a liberal-arts college with all of the resources of large "Big 10" research university.

Founded in 1967, LBC is a vibrant residential college at MSU that focuses on the study of science and its social impacts. Bridging the two cultures of the sciences and the humanities, the LBC curriculum integrates natural sciences and mathematics courses with courses in the history, philosophy, and sociology of science. Nearly all of the students in LBC major in the natural sciences; about 60% are women; nearly 20% are students of color; about 20% of LBC students also belong to MSU's Honors College. The college's faculty, staff, and students promote inclusion through a range of initiatives and have won awards for diversity and inclusion in their instruction and research. Faculty work closely with students in small classes and with student groups such as Women in Science and the Briggs Multicultural Alliance. We welcome applications from strong candidates who can enhance and complement the intellectual and cultural diversity of the LBC faculty.

Academic Specialists in LBC teach five courses each academic year. The chemistry group offers lecture and laboratory courses in general chemistry, including a joint biology-chemistry course for students entering with less mathematics preparation, and senior seminars. Academic specialists contribute professional service to the college, including membership on LBC committees. A candidate would also have the opportunity to work on teaching and learning projects as needs and interests arise. The chemistry academic specialist will start with a three-year probationary appointment that has the potential, after successful reappointment, to become a long-term position (for details see the MSU Faculty Handbook http://www.hr.msu.edu/documents/facacadhandbooks/academicspecialist/ASH_AppendixA.htm). Reappointment and continuing appointment decisions are based on performance reviews that include peer and student teaching evaluations.

This position is listed on the MSU Applicant Page, Posting # **2596**. Applications must be uploaded to MSU's online job application site (<https://jobs.msu.edu>). A complete application will include a c.v., a teaching portfolio, and a cover letter that outlines the candidate's expertise as it pertains teaching in the college as well as the pedagogical approaches the candidate employs. For details on teaching portfolios see www.lymanbriggs.msu.edu/faculty/openPositions.cfm. In addition, three letters of recommendation addressing the candidate's teaching experience and expertise must be sent electronically by the recommenders through the application system.

Deadline to ensure consideration of applications is **February 8th, 2016**, but review of applications will continue until the position is filled. Questions regarding this position should be directed to Dr. Ryan Sweeder, sweeder@msu.edu , Chair of the Chemistry Academic Specialist Search, Lyman Briggs College, 35 East Holmes Hall, Michigan State University, East Lansing, MI 48825-1107.

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.

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 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.