

2016 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
February 1, 2016

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

Tuesday February 2nd: *Faculty Lunch Seminar: Rick VanDuyne*
Tech K140
12:00 – 1:00pm

Friday February 5th: *Department of Chemistry Colloquium:*
Patrick Walsh, University of Pennsylvania
Tech LR3
4:00 – 5:00pm

BIP

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

Arrivals

Christos Malliakas joined IMSERC
Ali Morsali joined the Hupp Group
Majid Rezaeivala joined the Stoddart Group

Opportunities

The Department of Chemistry and Biochemistry at Washington and Lee University seeks to fill a full-time Visiting Position to teach Organic Chemistry and the associated lab. The position is for one year and is renewable for a second year upon satisfactory performance. The position starts in August 2016 and requires a Ph.D. in Chemistry and relevant teaching experience. Summer research opportunities are available. Review of applications will begin immediately and continue until the position is filled. W&L is a highly selective, independent, co-educational, liberal arts college of 1800 students located in Lexington, VA, three hours southwest of Washington, DC. W&L is an equal opportunity employer. Applicants should send a CV, a letter of application, a one page statement of teaching philosophy, unofficial graduate and undergraduate transcripts, and three letters of reference to: Lisa Alty, Chemistry@wlu.edu.

The University of California Riverside is embarking on a major new hiring initiative that will add 300 tenure-track positions in 33 cross-disciplinary areas selected through a peer-reviewed competition. Over the next three years, we will hire multiple faculty members in each area and invest in research infrastructure to support their work. This initiative will build critical mass in vital and emerging fields of scholarship, foster truly cross-disciplinary work and further diversify the faculty at one of America's most diverse research universities. We encourage applications from scholars committed to excellence and seeking to help redefine the research university for the next generation. For more information about UCR's hiring initiative please go to <http://clusterhiring.ucr.edu>

This announcement aims to fill an appointment in the area of Genome Stability and Human Health at the senior level. This is the first of four cluster hires in this area, with the successful senior candidate expected to help lead the three subsequent searches in this area at the junior level. The placement of the senior level candidate may be in the College of Natural and Agricultural Sciences or in the School of Medicine, depending on the preferences of the candidate and the host departments. The candidate must have a demonstrated record of success, team building, and leadership in the area of genome stability and human health and have a doctorate in a relevant field (such as Biochemistry, Chemistry, Molecular Biology, Genetics, Genomics) and be strongly committed to both undergraduate and graduate teaching. We are particularly interested in those whose research seeks to address relationships between genome stability and neurodegenerative diseases, cancer, ageing or diseases of the immune system. Preference will be given to applicants whose research interests complement those of existing faculty within the College of Natural and Agricultural Sciences or the School of Medicine and those in our interdepartmental graduate programs in Genetics, Genomics and Bioinformatics, Cell, Molecular and Developmental Biology, Neuroscience, Environmental Toxicology and Biochemistry and Molecular Biology, and strengthen our initiative to develop an extramurally funded research center in environmental health and toxicology. Preference also will be given to applicants who have the potential or demonstrated ability to successfully work with and benefit a diverse student body.

Applications should include a full *curriculum vitae*, cover letter, a description of proposed research, teaching philosophy and provide five names and contact details for confidential references. A statement addressing potential contribution to academic diversity must be included. Applicants should apply through <http://aprecruit.ucr.edu/apply/JPF00528> in Genome Stability and Human Health. For full consideration applications should be received by February 28, 2016. Applications will be accepted until the positions are filled. Anticipated start date is June 30, 2016. Salary is commensurate with education and experience.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification. Advancement through the faculty ranks at the University of California is through a series of structured, merit based evaluations, occurring every 2-3 years, each of which includes substantial peer input.

The University of California is an Equal Opportunity / Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

For more information about the position, please contact Dr. Peter Atkinson at peter.atkinson@ucr.edu. For questions on application procedures and requirements, please contact Margi Burnett at margi.burnett@ucr.edu.

Gustavus Adolphus College invites applications for two full-time one-year positions of Visiting Assistant Professor in the Department of Chemistry to begin September 1, 2016.

Minimum Required Qualifications: We seek candidates who have an earned doctorate, but will consider candidates who have achieved ABD status. Candidates must have demonstrated excellence in teaching. A commitment to undergraduate teaching is essential; in their application candidates should discuss their commitment to teaching a student-centered undergraduate chemistry curriculum in a liberal arts environment.

Preferred Qualifications: We are interested in applicants who will complement our commitment to students and faculty from diverse cultural groups, and who will diversify the expertise and experiences represented in the department.

Major/Essential Functions:

Biochemistry Position: The teaching load will be seven course equivalents. Primary teaching responsibilities will include biochemistry lecture and labs (200-level) and contributions to general education, including teaching during our interim January term (a one-month short course) as determined by the candidate and appropriate to the candidate's expertise and interests. The department anticipates a continued vacancy in this area, and the successful candidate may be considered for continuation into the 2017-18 academic year, contingent upon favorable review and the continuing needs of the College. Biochemistry at Gustavus is an interdisciplinary program with direct ties to both the Departments of Biology and Chemistry.

Organic Position: The teaching load will be seven course equivalents. Primary teaching responsibilities will include Organic II lecture and labs (200-level), Organic I lecture and labs (100-level), and contributions to general education, including teaching during our interim January term (a one-month short course) as determined by the candidate and appropriate to the candidate's expertise and interests.

Application and Institution Information: Electronic application is required; email application materials as separate PDFs to chem-search@gustavus.edu (NOTE: Please indicate in the email subject line which position you are applying for). The application materials must include a letter of application, curriculum vitae, statements of teaching philosophy and research interests, undergraduate and graduate transcripts (scanned copies acceptable), and three confidential letters of professional recommendation (sent directly from the reference or letter service). The cover letter and letters of recommendation should be addressed to:

Department of Chemistry
Gustavus Adolphus College
800 W College Ave
Saint Peter, MN 56082-1498

Application information is also available at www.gustavus.edu/jobs. For more details, visit the College's website at www.gustavus.edu/provost/newfaculty/ or email chem-search@gustavus.edu. Review of applications will begin on February 22, 2016, and continue until the position is filled.

The Gustavus Department of Chemistry graduates approximately 30 chemistry and biochemistry/molecular biology majors each year. The Department prepares students for continuing education in post-graduate professional programs in chemistry, environmental or health-related fields. Students are engaged in research experiences both within and outside of classes.

Gustavus Adolphus College is a coeducational, private, Lutheran (ELCA), residential, national liberal arts college of 2400 students. The College maintains a longstanding commitment to excellence through diversity with a special emphasis on global engagement and service. Additionally, we strive to be a community supportive of all kinds of individuals and families. As an Affirmative Action employer, it is the policy and practice of Gustavus Adolphus College to provide equal employment opportunities for all. EOE Employer/Disabled/Vet

The Department of Chemistry at Kalamazoo College invites applications for a full-time Visiting Assistant Professor position for one year—September 2016 through June 2017. The successful applicant will contribute to teaching in Organic Chemistry. A Ph.D. in chemistry or the equivalent is required (or evidence of imminent completion). Prior teaching experience is desirable. Candidates must demonstrate an interest in undergraduate teaching. The Departmental website can be viewed at: <http://www.kzoo.edu/chem>.

Kalamazoo College is a highly selective, nationally known liberal arts college of approximately 1450 motivated students, offering an integrated undergraduate experience that weaves a traditional liberal arts curriculum into domestic and international educational experiences (www.kzoo.edu). Approximately 10% of students major in Chemistry. Graduates of the Chemistry Department pursue studies in the health care field, graduate-level work in the discipline, or move directly into industrial positions. The campus is located midway between Chicago and Detroit, and the Kalamazoo area encompasses a community of 225,000, which supports several college and university campuses along with numerous civic arts and cultural associations. Thirty-five miles from Lake Michigan, the area offers many opportunities for outdoor activities.

Review of applications will begin immediately and will continue until the position is filled. A cover letter, curriculum vitae, statement of teaching philosophy, undergraduate and graduate transcripts (unofficial is acceptable), and three letters of recommendation addressed to Laura Lowe Furge, Chair, Department of Chemistry, Kalamazoo College, 1200 Academy Street, Kalamazoo, MI 49006-3295, should be submitted electronically in pdf format to the administrative assistant, Lauryn Kindle at Lauryn.Kindle@kzoo.edu.

Kalamazoo College encourages candidates who will contribute to the cultural diversity of the College to apply and to identify themselves if they wish. Equal Opportunity Employer

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/academicsspecialist/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.