

2014 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
August 4, 2014

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

BIP

Meets every Friday at 3:00pm in Tech K140

Arrivals

Ahmed Al-Najada joined the Stoddart Group
Essam Al-Yamani joined the Stoddart Group
James Henkelis joined the Stoddart Group

Opportunities

AbbVie in Shanghai As part of anticipated hiring in chemistry globally in 2014 and 2015, I wanted to let you know that AbbVie is opening searches for *multiple entry-level Ph.D. job positions in synthetic and medicinal chemistry at our state-of-the-art facility in Shanghai*. We are looking for candidates who have a solid background in organic synthesis as part of their Ph.D./postdoctoral training, are fluent in both English and Chinese, and are willing to relocate to China. We have the openings posted on our company website, but also want to get the word out to academic institutions and research groups from which we would like to see applicants. I hope you will bring them to the attention of your groups and also your colleagues who might have students or postdocs interested in the positions.

Applicants are encouraged to send a CV and research summary to Dr. Xueqing Wang by e-mail at Xueqing.Wang@abbvie.com so these applications can get in front of the recruiting committee. More information about available positions can be found at www.abbvie.com

New Department of Material Design and Innovation, University at Buffalo, the State University of New York

The University at Buffalo, The State University of New York, is seeking an outstanding researcher and visionary leader to chair the new Department of Material Design and Innovation (MDI). The department is a joint undertaking between the School of Engineering and Applied Sciences (SEAS) and the College of Arts and Sciences (CAS). We invite applications and nominations for the position of Professor and founding Department Chair.

The Chair will lead the Department in the development and implementation of a strategic plan for educational, research, service and engagement programs. The Chair is expected to attract and mentor an interdisciplinary group of new faculty as well as build the Department into a nationally recognized academic unit. The Chair will foster and grow an environment of teamwork and collaboration across disciplinary and decanal areas and with external partners. The Chair will promote the MDI department to government, industry, not-for-profit organizations and academia.

The new Department will build on UB's considerable faculty expertise in material science and engineering, and in computing and informatics, to lead the campus effort in designing new materials. MDI together with the recently announced Center for Excellence in Material Informatics will lead the campus response to national and state needs in materials innovation and advanced manufacturing. MDI will partner with the Computer and Data Science and Engineering initiative in advancing UB's effort related to the White House Materials Genome initiative. As Chair, the candidate will provide strategic and academic leadership at the undergraduate/graduate educational levels, interdisciplinary research areas, service and engagement activities. The Chair is expected to integrate new and existing intellectual and physical resources to grow materials science and engineering research and educational programs across the disciplines. As the Department's chief administrative officer, candidates will provide effective management for all academic, administrative, budget and personnel decisions, as well as the vision and desire to steer the Department through a period of growth and expansion.

As Professor, the selected candidate will be expected to teach courses at the graduate and undergraduate level, mentor graduate students and junior faculty, advise students at all levels and maintain an active research program. An endowed chair was created for the inaugural MDI Department Chair. The selected candidate will be given this endowed chair position known as the Erich Bloch Chair. Candidates must have a Ph.D. in engineering or science. He/she should have demonstrated expertise in an area of material science and/or engineering. Candidates are expected to have a sustained track record of significant scholarship as evidenced by peer reviewed publications as well as a productive and well-funded program of basic or applied research. He/she should have international stature and recognition commensurate with the rank of Professor. All candidates must have a strong commitment to graduate and undergraduate education.

To apply, please submit a cover letter, curriculum vita, statements of teaching philosophy, statement of research goals and contact information for references via the UB Jobs posting at: www.ubjobs.buffalo.edu/applicants/Central?quickFind=57222.

Further information on the new department can be found at mdi.buffalo.edu

For questions regarding the search, please contact Ms. Laura Dombrowski at lauradom@buffalo.edu

Illinois Sustainable Technology Center, Prairie Research Institute, University of Illinois at Urbana-Champaign

The University of Illinois at Urbana-Champaign is a large campus with many opportunities and programs. The twin cities offer a variety of features including theaters, museums, restaurants, concert venues, parks, and recreation facilities. The expanding industrial and business commerce throughout the area is an exciting proposition for Urbana-Champaign, yet we still are able to preserve a small-town feel. Even with this growth, the area maintains a sense of community with smaller, established neighborhoods dominating the interior of both towns, while larger suburban housing is available on the outskirts. There are also delightful small towns within 20 miles of campus. The commute to work is not an issue in Urbana-Champaign! Most employees live within a 20 miles radius, and are able to make the trek within 20 minutes. Our area also has the pleasure of experiencing all four seasons, with average winters and summers in comparison to other US locales. The local public schools within C-U and surrounding areas offer a wide range of gifted programs, and there are several private schools within the area. Please visit the links below to learn more about the hiring units, the University of Illinois, and surrounding areas.

- Illinois Sustainable Technology Center: <http://www.istc.illinois.edu/>
- [Prairie Research Institute: http://www.inrs.illinois.edu/](http://www.inrs.illinois.edu/)
- The University of Illinois: <http://illinois.edu/>
- [University of Illinois Laboratory High School: http://www.uni.illinois.edu/](http://www.uni.illinois.edu/)

- The High School of St. Thomas More: <http://www.hs-stm.org/>
- Champaign Unit 4 Schools: <http://www.champaignschools.org/>
- Urbana School District 116: <http://www.usd116.org/>
- [Krannert Center for the Performing Arts: http://www.krannertcenter.com/](http://www.krannertcenter.com/)
- Allerton Park & Retreat Center: <http://allerton.illinois.edu/>
- [Ebertfest: http://www.ebertfest.com/](http://www.ebertfest.com/)
- [Nearby Mahomet, IL: http://www.ccfpd.org/Preserves/LakeoftheWoods.html](http://www.ccfpd.org/Preserves/LakeoftheWoods.html)
- Visit Champaign County: <http://www.visitchampaigncounty.org/>
- Central Illinois: <https://www.enjoyillinois.com/region/landoflincoln>

Position: Postdoctoral Research Associate, full-time, benefit eligible (12-month service basis, renewable for up to two years based on performance and additional funding).

Project description: **Focus on** water quality and emerging contaminants, pollution prevention, conservation of natural resources, and reduction of waste to protect human health and the environment of Illinois and beyond.

Responsibilities: The postdoc researcher will be responsible for the day-to-day execution of laboratory, model simulation, and field studies associated with pharmaceuticals and personal care products (PPCPs). The major research tasks include: monitoring PPCPs in karst groundwater, identifying and quantifying and determining what PPCPs are present in effluents from wastewater treatment plants and concentrated animal feeding operations (CAFO), investigating their fate and transport, assessing potential effects of environmental occurrence of PPCPs on public health, and developing effective mitigation strategies.

Qualifications: Applicants must have completed their Ph.D in chemistry, environmental/chemical engineering, soil, hydrology or related fields **within the past 5 years and/or by start date**. Experience with organic contaminant analysis and/or model simulation preferred. Must be well-trained in laboratory skills including sample preparation and operation of modern chromatography and spectroscopy. Knowledge of environmental fate and transport of chemical contaminants as well as wastewater treatment techniques is required. Additional requirements include a valid driver's license.

Availability and Salary: Proposed starting date September 16, 2014, but start date is negotiable. Salary is \$40,000, plus generous vacation, sick, and personal leave, and holidays. State Health, Dental and Life Insurance, and retirement pension program for eligible employees.

Application process: Applications must be received by August 15, 2014. To apply, all candidates must submit an online profile through <https://jobs.illinois.edu> by the close of the posting period. Qualified candidates must upload a cover letter detailing skills and qualifications noted above; a curriculum vitae or resume; a working e-mail address; and the names, addresses, phone numbers, and e-mail addresses of three professional references.

All requested information must be submitted for your application to be considered. Incomplete information will not be reviewed. Applications may be reviewed prior to closing. For further information please contact Erica Hanson, Human Resources, at elhanson@inhs.illinois.edu; For technical questions contact Dr. Wei Zheng at weizheng@illinois.edu.

Department of Chemistry and Biochemistry at St. Cloud State University This is a 12 month probationary general chemistry laboratory coordinator position in the Department of Chemistry and Biochemistry. The department currently has 13 full-time faculty and offers an American Chemical Society approved program. Date of appointment: September 8, 2014, or sooner

Responsibilities:

The successful candidate will coordinate and teach laboratory sections of introductory, preparatory, forensics and general chemistry courses for science and non-science majors. Additional duties will include supervision and training of undergraduate student employees for laboratory preparation, maintaining laboratory preparation protocols, preparation and setup of weekly labs; laboratory curriculum development, grading, maintaining adequate supplies needed for courses; and coordination between lecture instructors. Employment for this position is covered by the collective bargaining agreement for the Minnesota State University Association of Administrative Service Faculty (MSUAASF) which can be found at www.hr.mnscu.edu/contract_plans/documents/MSUAASF_Plan_11_13.pdf

Qualifications:Required:

- MS in chemistry or related fields
- Experience in teaching undergraduate-level laboratory courses
- Demonstrated excellence in organizational and communication skills
- Evidence of current knowledge of experimental procedures and experimental design, laboratory curriculum development, chemical safety, and familiarity with MS-Office suite.
- Evidence of demonstrated ability to work with persons from culturally diverse backgrounds.

Preferred:

- Ph.D. in chemistry or related fields
- Experience in supervising undergraduate student employees

Additional information on St. Cloud State University can be found at: <http://www.stcloudstate.edu>

To apply directly, click on <http://agency.governmentjobs.com/stcloudstate/default.cfm> (click “Apply” within this posting to complete application)

The deadline for the receipt of all materials is **Aug 13, 2014** and application review will begin at that time. Materials received after this date cannot be guaranteed consideration. The position is open until filled.

A complete application will include the following:

- Cover Letter
- Resume/Curriculum Vitae
- Teaching philosophy statement
- Contact information for three (3) current, professional references
- Undergraduate and graduate transcript(s) (copies acceptable for screening)

Contact Information (for questions and letters of reference)

E-mail: chemistrylcsearch@stcloudstate.edu

St. Cloud State University is committed to excellence and actively supports cultural diversity. To promote this endeavor, we invite individuals who contribute to such diversity to apply, including minorities, women, LGBT, persons with disabilities and veterans. St. Cloud State University is a member of Minnesota State Colleges and Universities System.

The Department of Chemistry and Biochemistry at New Mexico State University (NMSU), Las Cruces, invites candidates with a Ph.D. in Chemistry or a closely related area to apply for a full-time, nine-month non-tenure-track lecturer position at the College Assistant Professor level (Position #718317) beginning either January 2015 or August 2015. Primary teaching assignments will include general chemistry and undergraduate-level organic chemistry, both lecture and laboratory. Successful candidates must have demonstrated excellence

in teaching undergraduate lecture or laboratory courses and be committed to providing quality undergraduate education. Applicants must submit three letters of reference, a cover letter, CV, copy of transcripts with degree posted, statement of professional goals and teaching philosophy, and evidence of teaching effectiveness. NMSU is a public, land grant, minority-serving institution recognized by the Carnegie Foundation as a RU/H (Research University with high research activity) institution. For more information see: <http://www.chemistry.nmsu.edu/>

Applications should be submitted on-line at: <https://jobs.nmsu.edu/> New Mexico State University is an Equal Opportunity/Affirmative Action Employer; Minorities, Females, Veterans, and those with a Disability are encouraged to apply. To begin Searching for Job Openings, please click "Search Jobs" in the left navigation section (Quicklink: <http://jobs.nmsu.edu/postings/18404>). To apply for Job Openings, please create an account by clicking the "Create Account" link. If you need assistance, please contact Human Resource Services at (575) 646-8000.

Review of applications will begin October 1, 2014. NMSU is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and underrepresented minority candidates. All university positions are contingent upon availability of funding. All offers of employment, oral and written, are contingent on the university's verification of credentials and other information required by federal law, state law, and NMSU policies/procedures, and may include the completion of a criminal history check.

Department of Biological, Chemical and Physical Sciences at Roosevelt University As a mid-sized, private, non-sectarian university in the Chicago area (loop and Schaumburg), Roosevelt University can provide such teaching opportunities for researchers in our Department of Biological, Chemical and Physical Sciences. We provide part-time instructors with constructive feedback, student evaluations, faculty development opportunities, and administrative/laboratory support to provide a productive experience for new instructors.

We have several teaching opportunities in the Fall 2014 and Spring 2015 semesters in biology, biochemistry, chemistry, environmental science and physical science for the, beginning August 23. Contact Vicky McKinley, Professor and Chair at vmckinle@roosevelt.edu or (312)341-3682

Pharmaceutical Sciences group at Merck & Co. Inc has several exciting Sr. Scientist openings. The positions will be located at our Rahway NJ or West Point PA sites. We are seeking talented chemists with backgrounds in analytical, organic, physical organic, organometallic, inorganic, physical, bioanalytical, biophysical or polymer chemistry. In this role, the Sr. Scientist will work in an interdisciplinary team supporting new product development activities. Example activities include:

- Solving challenging drug development problems
- Developing innovative analytical approaches to characterize small molecules and peptides in formulation
- Elucidate drug degradation mechanisms and develop mitigation strategies
- Characterize chemical and physical properties of excipients
- Support a variety of solid oral and parenteral dosage form development from a fundamental chemistry perspective

Interested applicants should send their resume to Yun Mao, PhD, Director, Analytical Sciences, Pharmaceutical Sciences at yun_mao@merck.com.

The Georgia Institute of Technology, School of Chemistry and Biochemistry seeks to fill a tenure-track faculty position in the development of any aspect of chemistry or biochemistry related to feedstocks from renewable and sustainable sources. Research areas of interest include, but are not limited to, functional biomaterials, catalysis, energy harvesting and storage, efficient syntheses and processes, and plant bioengineering and synthetic biology. Opportunities for significant interaction with and support from the Institute for Paper Science and Technology at Georgia Tech (ipst.gatech.edu) will be available. Candidates with interdisciplinary research programs may be considered for joint appointments with other campus units.

Exceptional candidates at all levels are encouraged to apply. Assistant Professor candidates should submit a cover letter, curriculum vitae, description of research plans, description of teaching interests and philosophy, and arrange for the submission of three letters of recommendation. Candidates at advanced levels should submit a cover letter, curriculum vitae, and the names and contact information of three references. All materials and requests for information should be submitted electronically, as per the instructions found at:

<https://academicjobsonline.org/ajo/jobs/4045>

The application deadline is September 15, 2014, with application review continuing until the position is filled. Georgia Tech is an equal education/employment opportunity institution.

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 \$45,000 - \$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: **August**; Opens June 1; Closes August 1
Review Cycle: **November**; Opens September 1; Closes November 1
Review Cycle: **February**; Opens December 1; Closes February 1
Review Cycle: **May**; Opens March 1; Closes May 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.