

**2014 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**July 28, 2014**

- Monday July 28:                    *Materials Horizons Symposium*  
Pancoe – NSUHS Life Sciences Pavilion  
10:30am – 5:30pm
- Tuesday July 29:                    *2014 Myron L. and Muriel S. Bender Lectures:*  
*Benjamin Davis, University of Oxford*  
Tech L211  
4:00 – 5:00pm
- Wednesday July 30:                    *2014 Myron L. and Muriel S. Bender Lectures:*  
*Benjamin Davis, University of Oxford*  
Tech L211  
4:00 – 5:00pm
- Thursday July 31:                    *2014 Myron L. and Muriel S. Bender Lectures:*  
*Benjamin Davis, University of Oxford*  
Tech M345  
11:00 – 12:00pm
- Friday August 1:                    *Special Seminar: Christine M. Beavers*  
Ryan Hall 4003  
4:00 – 5:00pm

***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**

We did not have any new arrivals this week

**Opportunities**

**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](http://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](mailto: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.

**The Department of Chemistry at the University of Puerto Rico, Rio Piedras Campus** invites applications for one (1) full time tenure-track faculty position to begin January 2015.

The Department is seeking:

- Outstanding candidates who employ biochemical and biophysical approaches to the study of biological structures and biochemical interactions in an area that is biomedically relevant. Previous experience in structure determination utilizing NMR spectroscopy would be beneficial, but not required. The candidates must have at least two years of postdoctoral experience and have demonstrated excellence in innovative research, as well as the capacity to successfully obtain competitive research funds. Candidates must also have strong potential for being highly effective teachers at undergraduate and graduate levels. Preference will be given to candidates with disciplinary expertise in Biochemistry.

Or

- Applicants who can develop a structural biology research program that focuses on structure-function relationships of biomedically important macromolecules and/or protein-drug interactions. The candidates should have at least two years of postdoctoral experience and have demonstrated skills in protein chemistry, protein structure determination and in the preparation of large molecules for structure studies. A demonstrated ability to work in a multidisciplinary environment and previous experience at a national or international synchrotron would be highly beneficial, including past success in obtaining sponsorship for beam time and skills in the utilization of software. Candidates must also have demonstrated excellence in innovative research and the capacity to successfully obtain competitive research funds.

*Responsibilities:* Teach undergraduate and graduate courses; conduct research and publish in their areas of specialty; develop proposals seeking external funding; participate actively in departmental activities and projects, as well as those at the College of Natural Sciences and the Rio Piedras Campus, and fulfill all other obligations of a teaching job.

Evaluation will start on August 4, 2014 and applications will be received until the position is filled. Send a letter of interest with your curriculum vitae, undergraduate and graduate transcripts, three letters of recommendation, and a description of research plans and teaching experience/philosophy to:

Dr. Néstor M. Carballeira, Chair  
Department of Chemistry - College of Natural Sciences  
University of Puerto Rico, Rio Piedras Campus  
PO Box 23346  
San Juan, PR 00931-3346  
Send a copy to: [nestor.carballeira1@upr.edu](mailto:nestor.carballeira1@upr.edu)

The University of Puerto Rico is an equal employment/affirmative action employer.

**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](mailto: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](mailto:yun_mao@merck.com).

**Pure Oleochemicals, Inc.** is seeking qualified candidates to fill the position of a Senior Chemist/Chemical Engineer for our growing technology company. This person is responsible for the fabrication of polymeric membranes, completing separation experiments, and characterizing the results using different spectroscopic techniques. Experience with polymer chemistry, membranes, and separations is highly desired. This person will work closely with others in the company to design experiments and to interpret the results. Furthermore, this person is responsible for managing the day-to-day activities in the Pure Oleochemicals lab, including management of personnel, stewardship of lab equipment, publishing test results, and assisting in the successful commercialization of the Pure Oleochemicals membrane technology for molecular purification and separation as directed by the management team.

Pure Oleochemicals is a new start-up company that launched in late 2013 out of the University of Iowa. This company has proprietary membranes for the separation of key organic molecules used in numerous industrial applications. This company is head-quartered in the Iowa City/Coralville area.

**The essential job functions for this position include:**

- Will conduct research and experiments as directed by company management
- Will incorporate systems and controls necessary to assure integrity of all test results and quality control
- Will follow acceptable organic chemistry laboratory procedures as well as safety protocols
- Participation in meetings with the research team, management team, customers and other parties to ensure that his colleagues are aware of relevant issues related to technological and other developments in the lab
- Will use several instruments like nuclear magnetic resonance spectroscopy and gas chromatography in order to analyze materials and results of tests conducted in lab
- Will be responsible for lab maintenance and test equipment maintenance

**Qualified candidates will meet these requirements:**

- A Masters degree in chemistry, chemical engineering, or a related field as required is a minimum requirement.
- A PhD in either chemistry, chemical engineering, or a related field is desirable and preferred.

- Should have experience working with organic chemicals, membranes, polymers, and/or oleochemicals.
- Understands relevant safety and governmental issues surrounding safe and compliant operation of a lab engaged in organic chemistry experiments and tests.

Qualified candidates should send a cover letter explaining why they would like to be considered as a candidate for this position, their resume, letters of reference, and any other supporting information to [Human.Resources@PureOleochemicals.com](mailto:Human.Resources@PureOleochemicals.com).

**The Department of Chemistry, University of York** Applications are invited for a postdoctoral fellowship for 13 months to work with Professor Robin Perutz, FRS in the Department of Chemistry. The project is funded by EPSRC (UK Engineering and Physical Sciences Research Council) to carry out research on halogen bonding and hydrogen bonding. You will join an on-going project running in collaboration with Professors Lee Brammer and Christopher Hunter, FRS in the University of Sheffield with the aim of developing a quantitative scale for halogen bonding and hydrogen bonding encompassing inorganic and organic substrates. The successful applicant will work in new state-of-the-art laboratories that opened in 2012.

You should have a PhD degree in chemistry and hands-on experience in NMR spectroscopy and synthesis of coordination or organometallic complexes and a quantitative approach to your research. You will have the ability to play a leading role within the research team; you will collaborate extensively with members of the research project based in Sheffield.

This position is available from 1 August 2014

Informal enquiries may be made to Professor Robin Perutz (E-mail [robin.perutz@york.ac.uk](mailto:robin.perutz@york.ac.uk))  
***The Department of Chemistry holds an Athena SWAN Gold Award and is committed to supporting equality and diversity for all staff and students.***

Full details will be available at [www.jobs.ac.uk](http://www.jobs.ac.uk) from June 2.

**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](http://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](mailto: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](http://www.nationalacademies.org/rap).