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

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

BIP

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

Arrivals

We did not have any new arrivals

Opportunities

Postdoctoral Positions in Synthetic Inorganic Chemistry Los Alamos National Laboratory (LANL):
Seeking two outstanding candidates with extensive inorganic, organic or organometallic chemistry experience to support emerging/growing programs focused on the fields of actinide chemistry and nuclear security. Candidates will be performing synthetic chemistry to prepare, isolate and characterize novel compounds including those of the transition metals, or the actinides. Study and optimization of metal catalyzed decomposition of organic compounds to generate gas pressure at low temperatures will also be pursued. Candidates must be willing and able to work with an interdisciplinary team of scientists from multiple organizations including Chemistry, Materials Science, Engineering , Theoretical and Weapons Divisions.

Minimum Job Requirements:
A strong background and extensive hands-on experience in synthetic chemistry. The ability to work creatively and independently. Demonstrated excellence in written and oral communication skills as evidenced by a strong publication and presentation record.

Desired Skills:
Experience with standard wet- and air-sensitive chemistry techniques for molecular synthesis and characterization (chromatography, Schlenk, drybox, chromatography, NMR and optical spectroscopy, etc.) Knowledge of ligand design. Additional experience in structural analysis (XRD) is a plus.
· Demonstrated ability to work independently and with minimum supervision
· Demonstrated ability to plan and organize assignments so that schedules are met on time
· Ability to obtain a DOE "Q" clearance for one of the programs.

Education:
Ph.D. in chemistry within the last five years or soon to be completed is required

Where You Will Work
Located in northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. LANL enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing

technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

Notes to Applicants:
If interested, please send a CV with the names of three references to Jim Boncella at Boncella@lanl.gov For additional technical details, contact Dr. Jim Boncella at Boncella@lanl.gov

Q Clearance:
Applicants selected to proceed with Q Clearance will be subject to a Federal background investigation and must meet eligibility requirements*.
*Eligibility requirements:
To obtain a clearance, an individual must be at least 18 years of age; US citizenship is required except in very limited circumstances. See DOE Order 472.2 for additional information.

Pre-Employment Drug Test:
The Laboratory requires successful applicants to complete a pre-employment drug test and maintains a substance abuse policy that includes random drug testing.
Candidates may be considered for a Director's Fellowship and outstanding candidates may be considered for the prestigious Marie Curie, Richard P. Feynman, J. Robert Oppernheimer or Frederick Reines Fellowships.

For general information on the LANL Postdoc Program go to http://www.lanl.gov/careers/career-options/postdoctoralresearch/index.php.

Equal Opportunity:
Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. We welcome and encourage applications from the broadest possible range of qualified candidates. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request for individuals to participate in the application and hiring process. To request such an accommodation, please send email to applyhelp@lanl.gov or call 1-505-665-5627.

The Chemistry Department of Johns Hopkins University, Baltimore, Maryland (www.chemistry.jhu.edu) invites applications from outstanding individuals in search of a tenure-track position in the area broadly defined as chemistry at the interface of biology with an anticipated starting date of July 1, 2017.

Applicants at the Assistant and Associate Professor level are preferred but exceptional candidates at the Full Professor level will also be considered. Applicants should submit a curriculum vitae, a statement of teaching interests and philosophy, and a description of research plans through Interfolio (http://apply.interfolio.com/36258). Consideration of applications will begin on October 17, 2016.

Applicants should send requests for recommendation letters from their Interfolio account to their three references. For questions about Interfolio, call (887) 997-8807 or email help@interfolio.com .

Johns Hopkins University is committed to active recruitment of a diverse faculty and student body. The University is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities and encourages applications from these and other protected group members. Consistent with the University's goals of achieving excellence in all areas, we will assess the comprehensive qualifications of each applicant.

The Department of Chemistry at Johns Hopkins University is made up of internationally recognized faculty involved in all areas of contemporary chemical science, including many interdisciplinary areas interfacing chemistry with the fields of biology, medicine, physics and materials. There are currently ongoing research programs in analytical chemistry, atmospheric chemistry, environmental chemistry, bioorganic chemistry, biophysical chemistry, inorganic chemistry, bioinorganic chemistry, synthetic organic chemistry, organometallic chemistry, physical organic chemistry, physical chemistry, chemical physics, surface chemistry, and theoretical chemistry. Achievements of the faculty in the department are highlighted by the many awards won each year by various faculty members, including prestigious NSF CAREER awards, Dreyfus Teacher-Scholar Awards, Dreyfus New Faculty Awards, Young Investigator Awards from the American Cancer Society, Department of Energy, DuPont and Eli Lilly, fellowships from the Sloanand Guggenheim Foundations, and Arthur C. Cope Scholar Awards.

The Amherst College Department of Chemistry
(https://www.amherst.edu/academiclife/departments/chemistry) invites applications for a full-time tenure-track appointment in inorganic chemistry at the rank of assistant professor beginning in July 2017.

Amherst College is one of the most diverse liberal arts colleges in the country. Forty-four percent of our students identify as domestic students of color, and another 10 percent are international, with non-U.S. citizenship; 17 percent are the first members of their families to attend college. Fifty-one percent of our students are women. Amherst is committed to providing financial aid that meets 100 percent of every student's demonstrated need, and 58 percent of our students receive financial aid. Our expectation is that the successful candidate will excel at teaching and mentoring students who are broadly diverse with regard to race, ethnicity, socioeconomic status, gender, nationality, sexual orientation, and religion. The position requires a Ph.D. in chemistry and calls for teaching general chemistry and advanced inorganic chemistry at the undergraduate level. Opportunities for teaching electives and interdisciplinary courses are also available. The successful candidate will be expected to establish a vigorous research program in experimental inorganic chemistry in which undergraduates can substantively participate. Applicants with expertise in any sub-discipline of inorganic chemistry—for example, bioinorganic, environmental, materials, or organometallic chemistry—are encouraged to apply.

Applicants should submit electronically to https://apply.interfolio.com/35694 a curriculum vitae; a statement of teaching philosophy, including philosophy of teaching a diverse student body; a detailed description of research plans; and the contact information for three confidential references. Applicants should also arrange for the forwarding of official undergraduate and graduate transcripts to Ms. Catherine Stillerman, Academic Department Coordinator, Department of Chemistry, Amherst College, P.O. Box 5000, Amherst, MA 01002-5000.

Review of applications will begin September 19, 2016, and will continue until the position is filled. Amherst College is an equal opportunity employer and encourages women, persons of color, and persons with disabilities to apply. The college is committed to enriching its educational experience and its culture through the diversity of its faculty, administration, and staff.

The Rowland Institute at Harvard The Rowland Junior Fellowship provides early career scientists with funding to establish an independent research program. This is an excellent opportunity to pursue new research ideas without the need for external funding, with full institutional support, access to the Institute's outstanding technical and scientific resources, and an opportunity to work in the rich intellectual environment at Harvard.

The Fellowship is an excellent springboard for young scientists because they can establish and build on their own research. We encourage pursuit of new ideas and provide a flexible environment that enables changes in research directions as new ideas develop.

The number of Rowland Junior Fellows will average two new appointments each year. We seek the best young experimentalists in all areas of science and engineering. Fellows must have completed their doctoral degrees prior to starting their term. We welcome applications from newly conferred doctorates as well as from candidates with postdoctoral experience. The start date is anytime during the 2017 calendar year. The base stipend for Rowland Junior Fellows is $71,000 *per annum* with increases based on years of experience beyond the Ph.D.

To Apply:
Applicants should download an application cover sheet and submit it with a 1-page research proposal, a 2-page *curriculum vitae* (CV), and arrange for three letters of recommendation to be sent. The application cover sheet, proposal, CV, and letters of recommendation may be either mailed or sent electronically as PDFs to: **rjf@rowland.harvard.edu**

or mail to:
Dr. Michael Burns
Rowland Junior Fellows Program
Rowland Institute at Harvard
100 Edwin Land Blvd.
Cambridge, MA 02142

The next application deadline is August 19, 2016. The term of the fellowship is for up to 5 years with a flexible start date. Questions about the program should be directed to rjf@rowland.harvard.edu.

The Department of Chemistry and Biochemistry at the University of Maryland Baltimore County invites applications for a one-year visiting, non-tenure track faculty position in physical and analytical chemistry beginning August 2016. Primary teaching responsibilities will include instruction and oversight of advanced chemistry laboratories. The successful candidate will have a strong background in chemical instrumentation and methodologies with a desire to teach at the undergraduate level. Applicants possessing a Ph.D. in chemistry or related field are preferred; qualified candidates with an M.S. degree and relevant experience will be considered.
Applications should include cover letter, curriculum vitae, statement of teaching philosophy, and three letters of recommendation and be sent electronically to apply.interfolio.com/35719.
Applications will enter the review process as soon as they are received and consideration of applications will continue until the position is filled.

Technische Universität München (TUM) Research Opportunities Week March 20 – 24, 2017
Take this unique opportunity to experience the Technische Universität München (TUM) and its research environment firsthand.

TUM invites you to come to Munich for a fully-funded one-week stay. Afterward, all candidates interested in pursuing a postdoc at TUM will be eligible to apply for a one-year TUM University Foundation Fellowship.
Are you a young researcher looking to launch your career in Munich? Send in your application for one of the 50 Postdoc Mobility Travel Grants at the Technische Universität München.

For the application form and further information on TUM's Research Opportunities Week:
www.tum.de/postdoc Contact: TUM ForTe: postdoc@tum.de

McNeese State University invites qualified applicants and nominations for the position of Assistant Professor of Chemistry in the Department of Chemistry and Physics. This is a full time, 9-month, unclassified, tenure-track position. The appointment begins in August 2016.

Position Description and Responsibilities:
The assistant professor is required to perform duties in accordance with the department's needs. The successful candidate is responsible for functions related to teaching, advising, scholarly activity, and contributions to the development of the department and university. The standard teaching load is 12 credit hours per semester. The successful candidate will teach organic chemistry as well as organic chemistry laboratories. Teaching assignments include upper level courses in the area of the candidate's expertise and departmental instructional needs. In addition, the assistant professor is expected to be involved in the maintenance of the department's chemical instrumentation (NMR, GC, GC-MS, LC etc.). As a member of a cooperative and collegial campus community, the successful candidate will also serve on university-wide committees and is expected to be an active scholar to help successfully meet the goals of the department.

Qualifications:
Required:

- PhD with significant progress in organic chemistry or a closely related field
- Evidence of successful involvement with chemical instrumentation

Preferred:

- Involvement with the maintenance of chemical instrumentation
- Experience in and commitment to teaching
- A demonstrated record of research

Salary: $51,000

Deadline:
Review of applications will begin immediately and will continue until position is filled.

Application Materials and Contact:
Applicants should electronically submit: Cover Letter, Curriculum Vitae, Research Plans, References (name, phone number, and e-mail address of at least three), and Unofficial Transcripts for the application process. Please electronically submit the required documents to: Chris Douvris at cdouvris@mcneese.edu

The Camille and Henry Dreyfus Foundation seeks to further the development of scientific leadership in the field of environmental chemistry with a postdoctoral fellowship program. The Postdoctoral Program in Environmental Chemistry provides a principal investigator with an award of $120,000 over two years to appoint a Postdoctoral Fellow in environmental chemistry.

Eligibility
The Postdoctoral Program in Environmental Chemistry is open to all academic and other not-for-profit organizations in the States, Districts, and Territories of the United States of America. Applications are accepted from **principal investigators** who have well-established research efforts in environmental science or engineering. These research activities need not be located in traditional departments in the chemical sciences, and collaboration across departments and institutions is encouraged. The postdoctoral fellow is usually not already identified nor in the principal investigator's lab at the time of application. Note: award recipients must wait two years from the conclusion of an award before being eligible to reapply.

Research Areas of Interest
Applications most likely to be of interest should describe innovative fundamental research in the chemical sciences or engineering related to the environment. The importance of the research should be explained.

Examples include but are not limited to the chemistry associated with: the climate, the atmosphere, aquatic or marine settings, toxicology, soil or groundwater. Also of interest are chemistry-related energy research (renewable sources, sequestration, etc.), and new or green approaches to chemical synthesis and processing, both with a clearly stated relation to the environment.

Selection

Applications come from the principal investigator. Recommendations for awards are based on several factors: assessment of the proposed research, the arrangements for the interdisciplinary educational broadening of the Fellow, and an assessment of the ability to both attract the best young Ph.D. candidates and subsequently place them in high level independent starting positions. Applications are reviewed by distinguished scientists in the environmental and chemical sciences.

Budget

The Postdoctoral Program in Environmental Chemistry provides a $120,000 award, payable in two $60,000 installments. Funds are normally expended over a period of two years after the appointment of the Fellow. Charges associated with indirect costs or institution overhead are not allowed. Of the total annual award amount, the stipend support of the Fellow is no less than $48,000 (stipends may be supplemented from institutional or other sources). Fringe benefits of the Fellow taken from this award may not exceed $12,000 annually.

Application Procedure

All application materials must be received at the Foundation office by August 1st. Applications recommended for approval are presented to the Foundation's Board of Directors in time for award announcements by early November.

Required Information:

Application package. The application should be formatted on 8 1/2 x 11-inch paper, using 12-point font size. Assemble it as:

1. The online application form (HERE)
2. A research proposal that would be judged as likely to advance environmental science in important ways (limited to four pages, including references)
3. A CV (limited to five pages) for each of the key professional personnel that includes ten or fewer relevant publications
4. A one-page description of the educational opportunities and institutional strengths in environmental science, and how the Fellow would be involved in them

Send all above materials as a PDF to: programs@dreyfus.org.

Reports

The first-year award of $60,000 will be paid after the Foundation has been provided with the Fellow's CV and anticipated start date. The second-year award of $60,000 will be paid upon request, after completion of the first year. The request should be accompanied or preceded by a financial report and a progress report from the project director that contains highlights of accomplishments under the award and the research plan for the coming year.

Send all above materials as a PDF to: programs@dreyfus.org.

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.