

**2016 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**August 8, 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**

Ryan Bisbey joined the Dichtel Group  
Anton Chavez joined the Dichtel Group  
David Fortman joined the Dichtel Group  
Sam Hein joined the Dichtel Group  
Yonghwi Kim joined the Nguyen Group  
Susana Lopez joined the Scheidt Group  
Michio Matsumoto joined the Dichtel Group  
Lorenzo Mosca joined the Stoddart Group  
Chao Sun joined the Dichtel Group  
Edon Vitaku joined the Dichtel Group  
Leilei Xiao joined the Dichtel Group

**Opportunities**

**Stanford ChEM-H is an independent institute at Stanford University**, formed in partnership with the Schools of Medicine, Humanities and Sciences, and Engineering. More information about the institute can be found on <https://chemh.stanford.edu/>. The Institute is seeking applicants for a tenure-track faculty position at the junior level (Assistant or untenured Associate Professor). Applicants are expected to have earned a Ph.D. or M.D. degree in any discipline of science, engineering or medicine.

We will consider applicants knowledgeable in any frontier area of research at the interface between chemistry, biology, engineering, and medicine. In general, we give higher priority to the overall originality and promise of the candidate's work than to the sub-area of specialization.

The successful candidate will have his/her primary appointment in a department within the School of Medicine, Humanities and Sciences, or Engineering. He/she will be expected to teach and/or perform clinical service within this department in a manner that is consistent with standard practices for tenure-track faculty within that department. The candidate will also be expected to develop a world-class research program in chemical biology. Applicants should be seeking a stimulating interdisciplinary environment in which to pursue teaching and research. We anticipate that the faculty member will develop interactions with faculty not only in his/her home department but also in other departments and Schools at Stanford and at the Stanford Synchrotron Radiation Laboratory.

Applications should be addressed to Professors Justin Du Bois and Chaitan Khosla, Search Committee Co-Chairs, and include a curriculum vitae (including research accomplishments, teaching experience, and publications), a description of future research plans, a teaching statement, and at least three letters of reference. All materials should be submitted online at <https://academicjobsonline.org/ajo/jobs/7456>. To ensure full consideration, applications should be submitted by October 3, 2016. Questions should be addressed to Professors Du Bois and Khosla at [chemh\\_info@stanford.edu](mailto:chemh_info@stanford.edu).

*Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women, members of minority groups, protected veterans and individuals with disabilities, as well as from others who would bring additional dimensions to the university's research, teaching and clinical missions.*

**The School of Basic Sciences at EPFL** invites applications for a tenure track assistant professor of experimental physics of biological systems in the Institute of Physics.

The successful candidate must demonstrate innovative research interests within biophysics, broadly defined as the investigation of the structure, dynamics and function of biological systems, from molecules to organisms. The open position will be embedded in a collaborative environment of both theoretical and experimental research at the interface between physical and biological sciences. Unique research platforms are available on campus and elsewhere in Switzerland, including the Swiss Light Source/SwissFEL, the Center for Biological Imaging (CIBM), the Center for Micronanotechnology (CMI) and the Center for Electron Microscopy (CIME). The appointed Professor will also enjoy close contacts with the other EPFL Schools, such as Life Sciences, Engineering, as well as the nearby Universities and University Hospitals.

Candidates must hold a PhD in physics or biophysics and possess a strong experimental background as well as an excellent publication record.

The appointee is expected to initiate an independent, creative research program and be committed to excellence in teaching physics at all levels. We offer internationally competitive salaries, benefits, and start-up resources for scientific equipment, as well as annual resources for PhD students, staff and consumables.

Applications including cover letter with a statement of motivation, curriculum vitae, publications list, concise statements of research and teaching interests as well as the names and addresses (including email) of five references should be submitted in pdf format via the website:

<https://academicjobsonline.org/ajo/jobs/7454> by September 30, 2016.

For additional information about this call for applications, please contact:

Prof. Benoit Deveaud  
Director of the Institute of Physics  
Email: [benoit.deveaud@epfl.ch](mailto:benoit.deveaud@epfl.ch)

More information about EPFL and the Institute of Physics can be found at: <http://www.epfl.ch/> and <http://iphys.epfl.ch>

**The Department of Biomolecular Sciences at the University of Mississippi School of Pharmacy** is currently seeking a highly motivated postdoctoral fellow who has experience in organic synthesis, especially total synthesis or multistep synthesis, or medicinal chemistry and like to transition these skills and learn how to apply enzymology towards discovering novel therapeutics agents. The position is available immediately in the laboratory of Professor Hoang V. Le, and the appointment is for two years.

Applications must be submitted through the University of Mississippi's online employment site at <https://jobs.olemiss.edu>. Review of applications will begin immediately and continue until the position is filled or until an adequate applicant pool has been established. Qualified applicants should submit a cover letter, a CV, a personal research statement, and a list of three references. The University of Mississippi is an EOE/AA/Minorities/Females/Vet/Disability/Sexual Orientation/Gender Identity/Title VI/Title VII/Title IX/504/ADA/ADEA employer.

Must be able to design and implement research plans as well as follow existing experimental protocols and procedures. Must be able to perform chemical reactions to synthesize organic compounds. Must learn how to perform molecular modeling and biological evaluation of organic compounds. Knowledge of analytical tools and techniques such as NMR, IR, mass spectrometry, and HPLC, is required for the assignments of chemical structures. Also, knowledge of separation and purification techniques is required. Need to be able to cooperate and collaborate with other laboratory researchers and scientists. Attendance at weekly meetings to communicate results of experiments is required.

Candidates must have a Ph.D. degree in Organic Chemistry or Medicinal Chemistry by the time of the appointment and a record of publications in peer-reviewed journals.

About The University of Mississippi, School of Pharmacy

Founded in 1908, the University of Mississippi School of Pharmacy is the state's only pharmacy school. Through its education, research, and service missions the school aims to improve the health of our state citizens as well as the nation and the world. The school is comprised of four academic departments (BioMolecular Sciences, Pharmaceutics and Drug Delivery, Pharmacy Administration, and Pharmacy Practice). Graduate degrees are offered by three departments. The Research Institute of Pharmaceutical Sciences (RIPS) is also housed within the School of Pharmacy. RIPS was established to discover and disseminate knowledge of natural drug products, develop and commercialize new products, improve public health, and stimulate the economy. Within RIPS are the Pii Center for Pharmaceutical Technology, Center for Pharmaceutical Marketing and Management and the National Center for Natural Products Research. The Pii Center is devoted to research related to hot-melt extrusion and other pharmaceutical processing technologies. The CPMM advances research, teaching, and service in the areas of medication use and health outcomes, management of health care organizations, and the marketing and utilization of cost-saving and appropriate medications in all segments of the health care industry. The NCNPR is the nation's only university research center devoted to improving human health and agricultural productivity through the discovery, development and commercialization of pharmaceuticals and agrochemicals derived from plants, marine organisms and other natural products. Continuing education opportunities are offered through the Division of Pharmacy Professional Development. Live CE programs are available to pharmacists at various locations throughout the state.

**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](mailto:Boncella@lanl.gov) For additional technical details, contact Dr. Jim Boncella at [Boncella@lanl.gov](mailto: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 Oppenheimer 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](mailto:applyhelp@lanl.gov) or call 1-505-665-5627.

### **The Chemistry Department of Johns Hopkins University**, Baltimore, Maryland

([www.chemistry.jhu.edu](http://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](mailto: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 Sloan and 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](mailto: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](mailto: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](http://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.

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