

**2015 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**August 3, 2015**

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

**BIP**

Meets every Friday at 2:45pm in Tech K140

**Arrivals**

Timur Islamoglu joined the Farha group  
Suk Joong Lee joined the Hupp group  
Matthew McConnell joined the Nguyen group  
Afif Seyam joined the Marks group  
Bess Vlasisavljevich joined the Shiozaki group  
Hao Yang joined the Hoffman group

**Announcements**

**VISITING SCHOLARSHIPS AT THE TEL-AVIV UNIVERSITY AND THE WEIZMANN INSTITUTE OF SCIENCE CALL FOR PROPOSALS**

APPLICATION DEADLINE: October 1, 2015

**SYNOPSIS OF PROGRAM**

Northwestern University has executed Memoranda of Understanding (MOU) with both the Tel-Aviv University (TAU) and the Weizmann Institute of Science (WIS) to lay a foundation for research collaborations and outcomes.

Within this framework, the Materials Research Science and Engineering Center (MRSEC), the International Institute for Nanotechnology (IIN), and the Weinberg College of Arts and Sciences (WCAS) Jointly with the Nanoscience Centers at our partner institutions, support an exchange program for faculty, postdoctoral associates, and graduate students engaged in research in science or engineering. We invite applications for \$5,000 fellowships to support visits to Tel-Aviv University or the Weizmann Institute by all members of the Northwestern community. Visits to Northwestern are supported by our partner institutes.

**APPLICATION REQUIREMENTS**

- Proposal for collaborative research (up to 2 pages long)
- Curriculum vitae
- Invitation from the host researcher
- Letter of support from the research advisor (students and postdoctoral fellows only)

PLEASE SEND ALL APPLICATION MATERIALS TO

Professor Tamar Seideman [seideman-ofc@northwestern.edu](mailto:seideman-ofc@northwestern.edu)

#### REPORTING REQUIREMENTS

Within 3 weeks of their return to the US, the travelers are requested to submit a short report describing their research experience.

#### SUPPORT INCLUDES

- Maximum individual award amount \$5,000
- US airline carrier at a coach rate should be used
- Per Diem requires pre-approval and can be approved only for travel of 15 days and longer duration (receipts are required for lodging only)
- For trips less than 15 days, original detailed receipts are required for lodging, meals and local transportation
- NSF and NU travel guidelines are applicable

#### Opportunities

**The Department of Chemistry, University of Toronto**, invites applications for a tenure stream position at the rank of Assistant Professor or Associate Professor in the area of Experimental Physical Chemistry, including fundamental studies of materials and/or biophysical chemistry. The position start date is July 1, 2016.

Applicants **must have earned a PhD by date of the appointment or soon thereafter** in the broadly defined area of Physical Chemistry, a strong academic background, an excellent research record and demonstrated excellence in teaching. Successful candidates will be expected to conduct innovative research at the highest international level and to establish an outstanding, externally funded research program. Evidence of excellence in teaching will be demonstrated through teaching accomplishments, letters of reference and the teaching dossier submitted as part of the application. Candidates also must have a record of excellence in research as demonstrated by publications in top ranked and field relevant academic journals, presentations at significant conferences, and strong endorsements by referees.

Salary and rank will be commensurate with qualifications and experience.

All qualified candidates are invited to apply by clicking on the link below. Applications should include curriculum vitae, a statement of teaching philosophy and interests, and an outline of proposed research. If you have questions about this position, please contact [receptn@chem.utoronto.ca](mailto:receptn@chem.utoronto.ca). All application materials should be submitted online.

Please combine attachments into one or two clearly labeled files in PDF format. Submission guidelines can be found at <http://uoft.me/how-to-apply>.

Applicants should also arrange to have three confidential letters of recommendation sent on their behalf to [receptn@chem.utoronto.ca](mailto:receptn@chem.utoronto.ca). To ensure full consideration, applications should be received by October 1, 2015. This search will remain open until filled.

For more information about the Department of Chemistry, please visit our website, [www.chem.utoronto.ca](http://www.chem.utoronto.ca).

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with

disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

### **Eli Lilly Research Scientist - Organic Chemistry – Discovery Research – Full Time**

#### **Who We Are:**

Lilly is a global healthcare leader that unites caring with discovery to make life better for people around the world.

We're a Fortune 500 company, determined to bring life-changing medicines to those who need them and give back to communities through philanthropy and volunteerism. To learn more about

Lilly, please visit us at [www.lilly.com](http://www.lilly.com).

#### **Lilly offers:**

- a Purposeful Career—bringing together people who discover and deliver life-changing medicines that improve peoples' lives around the world.
- a Balance of Work and Life creating an environment for employees to be productive in both their lives and their work.
- an Opportunity for Growth—providing opportunities for each individual to develop and advance professionally.
- A Diverse Culture—committed to uniting individuals across cultures, and developing a comfortable, connected, environment that values diverse thought.
- A Vibrant Community—headquartered in downtown Indianapolis, Ind. — *Time Magazine* ranked Indianapolis a top 10 city to start a new career in. Read more about living in Indianapolis at [www.downtownindy.org](http://www.downtownindy.org)

#### **We're looking for:**

- recent or soon to be Ph.D. graduates or current postdoctoral fellows in the area of organic chemistry. A career at Lilly may include roles in lead generation or lead optimization in discovery research/medicinal chemistry.
- highly motivated and driven leaders
- individuals with integrity, excellence and respect for people.
- individuals who want to make a difference in someone else's life.

#### **Roles and Responsibilities:**

##### 1. Medicinal Chemistry

- Analyze data in multiple dimensions
- Formulate and test medicinal chemistry hypotheses
- Design and execute synthetic routes to target compounds
- Prepare material for biological, toxicological and pre-clinical evaluations
- Work with external partners for purification, synthesis, and analysis
- Lead a research lab
- Work across functional groups

##### 2. Contribute to Lilly's Research and Development Effectiveness

- Organize seminar series
- Encourage sharing different perspectives during technical discussions
- Generate new ideas or methods to resolve problems
- Reorganize or reinterpret existing data or information to develop new initiatives or
- different approach to problems

##### 3. Employee Management and Development

- Mentor and coach direct reports
4. Growth in Scientific Community
- Participate in internal and external professional scientific activities.
  - Build and maintain relationships with academic departments and research groups.
  - Become a knowledge expert in selected areas
  - Author scientific publications

**Requirements:**

- Ph. D. in Organic Chemistry or a related area completed by August, 2016

**Additional Skills/Preferences:**

- Demonstrated experience leading, managing, and/or mentoring in a lab environment
- Demonstrated proficiency with oral and written communication
- Experience working as part of a team
- Examples of insightful, analytical, conceptual, and creative scientific problem solving
- Demonstrated ability to organize, prioritize, and make decisions that drive projects
- History of networking and building relationships

**Location:**

- **Location** – Indianapolis, IN with possible future opportunities in San Diego, CA

Lilly is an EEO/Affirmative Action Employer, and does not discriminate on the basis of race, gender, protected veteran status, disability or any other legally protected status

**University of Pennsylvania, Assistant Professor**

As part of a larger investment to create a new Center for Energy Research, the School of Arts and Sciences at the University of Pennsylvania seeks to add faculty to our newly formed Energy Cluster spanning the natural sciences. Following a first hire in Chemistry, we now invite applications for tenure-track assistant professor whose primary research and teaching affiliation will be in one of the following departments: Biology, Earth and Environmental Science, or Physics & Astronomy. Exceptional senior candidates will be given consideration. The successful candidate will mount an innovative program of fundamental scientific research with impact on our societal energy challenges, and in doing so will forge collaborative links with Penn scientists and engineers involved in energy research.

Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/590>. Required application materials include: curriculum vitae with a list of publications, and a research and teaching statement that includes the candidate's perspective on how she or he fits into one of the three departments and identifies potential collaborative links with other natural science departments. Applicants should also submit the names and contact information for three individuals who will provide letters of recommendation. Review of applications will begin no later than September 1st, 2015 and will continue as long as the position remains open. The School of Arts and Sciences is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to establishing a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

**Chem-Tech International, Inc** has a job opening for an entry level full-time Sales Engineer. This job consists of servicing accounts and recommending chemical treatment and/or equipment for water and water/mechanical problem using the most complete portable field lab equipment provided by Chem-Tech. This equipment consists of a Wet Test Kit and a Spectrophotometer that will enable our Representative to work hand in hand with our customers and possibly solve their problems on-site. This enables the customer to resume rapid and efficient cost effective operation. Our Representative must be able to take on a developed territory and/or develop a territory to serve the customer to the fullest of their ability.

There is a training period which includes working in our lab, seeing first-hand the processing of our chemicals, and finally going into the field with a trained Representative to observe the work of chemistry, problem solving, and serving our customers to the best of our ability.

### **Physical Demands and Work Environment**

Other requirements of the job include:

1. Be able to carry up to 60lbs (applicant needs to carry Wet Test Kit and Spectrophotometer)
2. Climbing ladders to inspect cooling towers/boilers
3. Have a valid driver's license in the state they declare residency
4. Must have an outgoing personality (work well with the public) and at the same time be aggressive in the sales area
5. Must have Bachelor's Degree with a major or minor in the sciences or Mechanical Engineering. Sales background preferred.
6. Pre-employment drug screening and background check required

Interested applicants should send a resume via e-mail to [jsprang@cleanerh20.com](mailto:jsprang@cleanerh20.com) or call (920)994-4399.

**Stanford ChEM-H at Stanford University Tenure-track Faculty Position:** Stanford ChEM-H is an independent institute at Stanford University, formed in partnership with the Schools of Humanities and Sciences, Engineering and Medicine. 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 Humanities and Sciences, Engineering or Medicine. 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. 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/or the Stanford Synchrotron Radiation Laboratory.

Applications should be addressed to Professors James Chen and Justin Du Bois, 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/5672>. To ensure full consideration, applications should be submitted by October 15, 2015. Questions should be addressed to Professors Chen or Du Bois at [chemh\\_info@stanford.edu](mailto:chemh_info@stanford.edu)

**Johns Hopkins Applied Physics Laboratory** has a Post-doc opportunity in the Synthesis and Reactivity Section of the Asymmetric Operations Sector at JHU/APL. We are looking for someone with a strong synthetic background including Schlenk-line techniques and analytical skills including multinuclear NMR and GC/MS. This is an opportunity to apply chemistry knowledge learned in school to solve real problems related to national defense and homeland protection. It is fast-paced and requires collaboration with other scientists and engineers with different skill sets. Like a traditional post-doc, this position involves a lot of writing and presentations. However, we do not publish regularly in scientific journals since much of our work is classified. As such, the candidate must be able to obtain and maintain a

security clearance.

Please have your students apply to Req # 09612 at [www.jhuapl.edu](http://www.jhuapl.edu)

**The Department of Chemistry at Wayne State University in the laboratory of Dr. Mary Kay H. Pflum** is accepting applications for a Postdoctoral Research Associate.

Highly motivated candidates skilled in one or more of the following- chemical biology, synthetic organic chemistry, biochemistry, enzymology, mass spectrometry, cell biology- with a recent Ph.D. degree are encouraged to apply. The project entitled, "Chemical Approaches to Mapping Cell Signaling Pathways" aims to develop ATP analogs as unique probes of kinase activity to characterize cell signaling networks. The project is highly collaborative and multi-disciplinary, with excellent training opportunity for scientific development. The laboratory is located in the recently remodeled A. Paul Schaap Chemistry building and offers state-of-the art facilities. Wayne State University is located in the thriving cultural center of Detroit, within a short distance of a wide variety of museums, theatres, concert halls, and sports arenas.

For more information on the laboratory, project, and facilities visit the Pflum lab website at <http://chem.wayne.edu/pflumgroup> .

To apply, please send a cover letter, CV, and the names and contact information of at least three references via email to [pflum@wayne.edu](mailto:pflum@wayne.edu) Review of applications will commence immediately and continue until the position is filled. Wayne State University offers a competitive salary and benefits package.

**The Dore Laboratory in the Chemistry Program of the Division of Sciences at New York University Abu Dhabi** seeks to appoint a Postdoctoral Associate starting September 2015. Applicants with backgrounds in synthetic organic, bioorganic, medicinal chemistry, or chemical biology are encouraged to apply. The research is aimed at developing new technology and tools for the study of biological function. Current projects include light-based methods to study developmental neurophysiology and small-molecule approaches to regulate CaaX proteases. For more information, visit <http://nyuad.nyu.edu/academics/faculty/timothy-dore.html>

Applicants must have received a Ph.D. in chemistry or related subject within the last three years or be within a few months from completion. We encourage applications from candidates with significant research experience in synthetic organic chemistry, bioorganic chemistry, medicinal chemistry, or chemical biology. Knowledge of photochemistry, molecular modeling, microscopy, molecular or cellular biology, biochemistry, or neuroscience is desired, but not required. Excellent communication skills in English, ability to work in multi-disciplinary teams, and scientific creativity are essential.

The terms of employment are competitive and include housing and educational subsidies for children. Applications will be accepted immediately and candidates will be considered until the position is filled. To be considered, all applicants must submit a cover letter, curriculum vitae, and a one-page summary of research accomplishments and interests, all in PDF format, through the NYUAD online application portal. Please visit our website at <http://nyuad.nyu.edu/about/careers/facultypositions.html> for instructions and information on how to apply. If you have any questions, please email [nyuad.science@nyu.edu](mailto:nyuad.science@nyu.edu).

*About NYUAD:* New York University has established itself as a Global Network University, a multi-site, organically connected network encompassing key global cities and idea capitals. The network has three foundational degree-granting campuses: New York, Abu Dhabi, and Shanghai, complimented by a network of eleven research and study-away sites across five continents. Faculty and students will circulate

within this global network in pursuit of common research interests and the promotion of cross-cultural and interdisciplinary solutions for problems both local and global.

Entering its sixth year, NYU Abu Dhabi has recruited a cohort of faculty who are at once distinguished in their research and teaching. Our students are drawn from around the world and surpass all traditional recruitment benchmarks, both US and global. NYU Abu Dhabi's highly selective liberal arts enterprise is complimented by an institute for advanced research, sponsoring cutting-edge projects across the Arts, Humanities, Social Sciences, Sciences, and Engineering.

**Catalysis Science with Pacific Northwest National Laboratory** is looking for a Post Doctorate RA  
**Job Description:**

Experience in synthetic and mechanistic organometallic/inorganic chemistry and handling air-sensitive materials is required. Excellent oral and written communications skills are mandatory. Proficiency with a range of spectroscopic techniques, particularly NMR, is essential. Experience in electrochemical measurements is desirable but not required. Must have the ability to work in a highly collaborative environment

The perfect candidates would have these 3 characteristics:

Expertise in preparing and handling highly air-sensitive complexes

Experience in NMR and electrochemistry

Independent and highly motivated

**Minimum Qualifications**

Candidates must have received a PhD within the past five years from an accredited college or university.

**Qualifications**

Ph.D. in organometallic chemistry or inorganic chemistry

**Equal Employment Opportunity**

Pacific Northwest National Laboratory (PNNL) is an Affirmative Action / Equal Opportunity Employer and supports diversity in the workplace. All employment decisions are made without regard to race, color, religion, sex, national origin, age, disability, veteran status, marital or family status, sexual orientation, gender identity, or genetic information. All staff at the Pacific Northwest National Laboratory must be able to demonstrate the legal right to work in the United States.

**About Tri-Cities**

<http://www.visittri-cities.com/>

The Tri-Cities started out with 3 main communities: Kennewick, Pasco, and Richland - but the phenomenal growth of neighboring West Richland has made the area more of a "Quad-City". Located just hours from Seattle, WA and Portland, OR, the area is embraced by the beauty of a desert landscape and connected by the Columbia, Snake, and Yakima rivers. The Tri-Cities offers a multitude of recreational, cultural, and historical activities and is a great place to visit and live. We're known for our premier golf courses, award-winning wineries, unique shopping, and abundant outdoor and water recreation. Visit the link above to learn more about the various communities. PNNL is located in Richland, WA.

**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).