

2015 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
January 26, 2015

Tuesday January 27th: *Faculty Lunch Seminar: Richard VanDuyne*
Tech K140
12:00 – 1:00pm

Friday January 30th: *Chemistry Colloquium: Naomi Ginsberg*
Tech LR3
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 2:45pm in Tech K140

Arrivals

There were not any new arrivals this week

Announcements

How to Secure Initial Financing for Your Startup presented by INVO – Innovation and New Ventures Office

SBIR/STTR GRANTS ARE THE ONLY SUBSTANTIVE SOURCE OF NON-DILUTIVE FUNDING

PLEASE JOIN US FOR THIS INFORMATIONAL SESSION, IF YOUR RESEARCH FINDINGS HAVE COMMERCIAL POTENTIAL AND YOU'RE THINKING ABOUT STARTING A COMPANY BASED ON YOUR RESEARCH.

Tuesday, February 3rd
Noon-1:30 PM
Ford ITW Room
(2nd floor)

Wednesday, February 4th
Noon-1:30pm
Lurie Research Center
Gray Seminar Room

Topics Covered in this Informational and Q&A Session:

Small Business Innovation Research (SBIR) & Small Business Technology Transfer (STTR) Grants

- What these grants are
- Which agencies provide them & How to find SBIR/STTR topics
- Eligibility requirements
- Benefits from a business model perspective
- Best practices and tips from successful recipients
- Where to receive support before or during grant preparation

Presenters Include:

- Jeff Coney, Director of Economic Development, Innovation and New Ventures Office
- Barbara Goodman, Senior Vice President, PROPEL, iBIO Institute
- Anna Lisa Somera, Director of Quality Regulatory Affairs and Operations, Diagnostic Photonics, Consultant to Briteseed and Innoblative Design
- Samir Mayekar, Co-Founder and CEO, SiNode Systems (Evanston Location)
- Rebecca McNaughton, Project Manager, Infinitesimal (Chicago Location)

Opportunities

One-year Postdoctoral stipend in Organic Chemistry at the University of Gothenburg

Project: Expanding the toolbox for organic synthesis – novel reactions utilizing divalent and trivalent lanthanide reagents

Our research is focused on the development of new lanthanide reagents for organic synthesis. We have previously developed a powerful reducing reagent based on samarium(II) iodide (SmI₂), water and an amine. Currently we are developing processes for the substitution of aliphatic fluorines utilizing di- and/or tri-valent lanthanide reagents. The continuation of the project involves mechanistic investigations and further method developments towards catalytic processes.

Recent publications see *Angew Chem Int Ed* 2013, 52, 12073; *Chem. Commun.*, 2013, 49, 1826; *Chem. Eur. J.* 2015, in press.

Qualifications: Achieved PhD in organic chemistry

Criteria:

- Theoretical and practical knowledge and interest in synthetic organic chemistry are eligible qualifications.
- Experience from work under inert atmosphere is considered advantageous
- A PhD closely related to the project is considered an additional qualification as well as experience of experimental work in organic synthesis.
- The applicant's ability to work independently as well as in collaboration with other group-members, e.g. PhD and master students.
- Previous experience of fluorine chemistry as well as from the use of lanthanide reagents are not required

Period: 12 month starting in the spring of 2015

Net salary: 240 000SEK/year (approx. 2 000 euros/month)

Application deadline 15 February 2015

Attach attested documents including list of qualifications (CV), copy of examination certificates, a copy of the PhD thesis (or equivalent), service certificates, a personal letter, two letters of recommendations (could be sent directly to Göran Hilmersson) and other documents deemed important by the applicant. For further information please contact Professor Göran Hilmersson, Tel: +46 (0)31-786-9022 or hilmers@chem.gu.se

Merck Summer Internships in Chemistry - We are pleased to announce the 2015 Merck Chemistry Summer Internship Program. This year's program provides internships in Analytical, Discovery, Process, and Structural Chemistry, and are available at the Boston (MA), Kenilworth (NJ), Rahway (NJ) and West Point (PA) research sites.

Merck Chemistry interns will each be paired with an experienced mentor, and will work side-by-side with the mentor on a cutting edge drug discovery program. During the course of the summer, interns will learn about drug discovery, make contributions to important programs, and generate results that may be included in future publications. They will also make many valuable contacts in the industry.

Internships typically start in early June, and run 9 – 11 weeks. Summer interns are paid a competitive stipend, and are also provided with a variety of additional benefits.

Students may apply at Merck's external career [website](#). In the search box, they should enter the following codes to find postings for specific areas. The job postings provide additional information on required qualifications, and on the details of the internships.

Analytical Chemistry – ADM006473
Discovery / Process Chemistry – ADM006480
Structural Chemistry – ADM006491

The application deadline is February 15th, 2015.

The Department of Chemistry at the University of Texas at El Paso (UTEP) invites applications for a tenure-track faculty position in Physical Chemistry (broadly defined including Physical Inorganic, Physical Organic, and Physical Biochemistry) at the Assistant Professor level with an anticipated appointment date for Fall 2015. The successful candidate is expected to develop a vigorous, energetic and externally funded research program, to be committed to teaching at undergraduate and graduate (master and doctorate) levels, to mentor students, and to serve the department, college, university, discipline, and community. The Department of Chemistry has top of the line facilities including NMR spectroscopy, mass spectrometry, EPR, x-ray crystallography (small molecule and protein), and cryo-electron microscopy located in the brand new state-of-the-art Chemistry and Computer Science Building. Candidates' research should have a strong potential for extramural funding and for the establishment of collaborations with other laboratories. Preference will be given to candidates whose research employs innovative approaches in areas including energy, environmental, and biosciences. Documents needed include letter of interest, curriculum vitae, research proposals, teaching statements, and a list of contact information for three references.

ABOUT UTEP AND EL PASO: Located on the culturally vibrant U.S.--Mexico border, The University of Texas at El Paso is an emerging national research university with more than 23,000 students. The University's rapidly growing research portfolio in the sciences, engineering, health fields, and other areas brings in more than \$83 million per year, ranking UTEP fourth in federal research expenditures among the public universities in Texas. El Paso is a highly livable, bicultural community of 800,000 people, which offers affordable homes and attractive neighborhoods. El Paso is also repeatedly ranked as the safest large city in the United States.

REQUIRED QUALIFICATIONS: Applicants must have a Ph.D. or equivalent degree, postdoctoral research experience, and a strong record of research accomplishments.

APPLICATION PROCEDURES: Review of applications will begin immediately and will continue until the position is filled. Candidates should send a letter of interest, curriculum vitae, statement of research interest, a brief description of teaching philosophy, and complete contact information for at least three references to the following address:

Physical Chemistry Search Committee Chair
Department of Chemistry
University of Texas at El Paso
500 West University Avenue
El Paso, TX 79968
mnarayan@utep.edu

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.