

2014 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
April 14, 2014

Monday, April 14: *UCC Distinguished Speaker: Marcy Towns*
Tech LR4
4:00 – 5:00pm

Tuesday, April 15: *Third Year Organic Seminar: Shuheng LI*
Ryan Hall 4003
11:00am – 12:00pm

Faculty Lunch Seminar: Rick Silverman
Tech K140
12:00 – 1:00pm

Thursday, April 17: *Organic Seminar: Richard Payne*
Ryan 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

There were no new arrivals last week

Opportunities

Sr. Scientist Position with Merck & Co. Inc. Established in 1891 Merck & Co. Inc. is a global research-driven pharmaceutical company dedicated to putting patients first.

Join us and experience our culture first-hand — one of strong ethics & integrity, diversified experiences, exceptional science and a resounding passion for improving human health. As part of our global team, you'll have the opportunity to collaborate with talented and dedicated colleagues while developing and expanding your career. We currently have an exciting opportunity to join our Analytical Sciences group located at our Kenilworth, NJ site.

In this role, you would be developing and utilizing characterization techniques to support product formulation development for new Merck products. In particular, product support includes:

- Analytical methods development and validation
- Analytical investigations
- Process and product characterization
- Developing novel analytical experiments and techniques to predict drug product performance
- Clinical study support
- Completing above tasks in an accurate and timely manner

Effective interaction with other technical, regulatory, research and manufacturing groups is critical. You'll have the opportunity to work with teams comprised of scientists and non-scientists, to effectively coordinate efforts and track the progress for multiple projects, and to provide technical leadership on interdivisional initiatives.

You would also support the implementation of new technology, including developing expertise in specialized equipment or techniques such as HPLC, LC/MS, GC/MS, Spectroscopy, and Dissolution. You would also keep abreast of innovative and novel scientific developments in the pharmaceutical industry by presenting papers at meetings, attending seminars, and reading relevant literature.

Qualifications: PhD in chemistry with 0-5 years analytical experience, and demonstrated publication record are required. Additionally, a strong academic record and well developed verbal and written communication skills are required.

For more information and to apply go to:

https://merck.taleo.net/careersection/ext_merckunitedstates_en/jobdetail.ftl

Laboratory Technician with GreatPoint Energy will play a key role in the operation and maintenance of GreatPoint Energy's lab scale catalytic coal gasification (CCG) units in Chicago, IL. The Laboratory Technician will work closely with the Research and Engineering staff to evaluate catalyst formulations and reaction test matrices for GreatPoint Energy's proprietary CCG process.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Catalyst solution preparation and impregnation
- Coordinate the calibration, start-up, operational and analytical procedures of lab scale testing units with the Research and Engineering staff
- Operate autoclaves for catalyst extraction and catalytic coal gasification units on a daily basis
- Data collection and analysis to ensure efficacy and accuracy of results– make recommendations for corrective action
- Lead role in interfacing on-line analytical methodology and sample collection/submission
- Ensure that equipment and processes comply with applicable safety, regulatory and engineering standards
- Interface with facility and site personnel regarding infrastructure and compliance
- Perform troubleshooting and preventive maintenance on systems – coordinates actions as needed
- Train other personnel in reactor operation and maintenance

SUPERVISORY RESPONSIBILITIES:

None

QUALIFICATIONS/EXPERIENCE:

Minimum of 5 years of experience in Chemical or Process Engineering/Sciences

Preferred Qualifications:

5-7 years of experience in high temperature/high pressure reactor operation

1-3 years of experience in interfacing on-line analytical instrumentation

EDUCATION:

- Bachelor's Degree in a technical/Science discipline preferred
- Two year college with >10 years of experience will also be considered

For more information please contact E. Joseph Campbell PhD, Director of Catalyst Research

jcampbell@greatpointenergy.com . More about GreatPoint Energy at www.greatpointenergy.com

The Center for the Study of the Presidency & Congress is a non-partisan organization that offers a non-resident internship designed to promote interest in public policy and encourage leadership.

The Center's Presidential Fellows Program consists of two components: a Fall Leadership Conference and the Spring Symposium. Fellows meet government officials, public policy leaders, and representatives from prestigious think-tanks; are assigned a mentor; and must participate in a panel discussion and deliver an original research paper during the Spring Symposium.

For more information, visit <http://www.thepresidency.org/programs/presidential-fellows-program>

Northwestern holds an internal competition to choose one representative for this fellowship.

Eligibility: Sophomores and juniors (in any major) who have demonstrated interest in public policy, the institution of the presidency, or Congress, and a GPA of 3.6 or higher.

Application requirements:

- A 300-word essay that details your interest in the program
- List one or two potential research topics
- Résumé
- Unofficial transcript
- Name of at least one Northwestern faculty member who is aware of your interest in public policy and/or research

All application materials should be submitted to: fellowships@northwestern.edu

Interested? Contact Jason Kelly Roberts Jason-roberts@northwestern.edu

Internal application deadline is Wednesday April 17, 2014 at Noon.

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.