

2014 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
April 21, 2014

Tuesday, April 22: *Third Year Organic Seminar: Peter Foote*
Ryan Hall 4003
11:00am – 12:00pm

Faculty Lunch Seminar: Cancelled

Thursday, April 24: *Organic Seminar: Michael Pollastri*
Ryan 4003
4:00 – 5:00pm

Friday, April 25: *Inorganic Seminar: Julia Chan*
Tech K140
4:00 – 5:00pm

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

Congratulations to Erin Quick on being named the NU work-study student employee of the year. Erin has been working in the X-Ray lab in IMSERC for the last 2 years. She has given tours of the lab to WCAS Deans, assists with running powder X-Ray diffraction samples, manages the X-Ray data and was instrumental in setting up IMSERC's new website.

BIP

Meets every Friday at 3:00pm in Tech K140

Arrivals

There were no new arrivals last week

Opportunities

The Department of Chemistry, Western Illinois University (WIU), invites applications for a tenure-track faculty position as Assistant Professor of Chemistry in Macomb, Illinois. A Ph.D. is required, preferably in an area of chemistry with an interest in applications to Forensic Chemistry. An individual with all but dissertation will be considered; however, the Ph.D. must be completed prior to receiving tenure-track status. The successful applicant will be expected to teach courses in forensic chemistry and to mentor undergraduate and graduate (M.S.) research students within our chemistry/ biochemistry/ pharmacy, and forensic chemistry programs. WIU is a comprehensive public university offering 57 undergraduate degree programs, 36 graduate degree programs, and a doctorate degree. With a student-to-faculty ratio of 16 to 1, WIU's 720 full-time faculty teach 95% percent of all undergraduate as well as graduate courses in addition to 13 pre-professional degree programs and 10 certificate programs. Western Illinois University is a member of the NCAA and competes at the Division I level. The Leslie F. Malpass Library ranks among the finest at comprehensive universities in the United States. Salary is competitive. Faculty salary minima can be found in the UPI faculty contract agreement on page 87 at http://www.wiu.edu/provost/upi_agreement/pdfs/UPI%20Agreement.pdf#87. Starting Date is August 14, 2014. Review begins immediately and will continue until the position is filled.

Complete applications include 1) a letter of application, 2) current curriculum vita or resume, 3) the names, telephone numbers, and e-mail addresses of three current professional references, 4) copies of unofficial academic transcripts, official transcripts will be required for selected candidate, 5) statement of research interests and mentoring experience, 6) statement of teaching interests. To apply, please upload the requested documents by clicking APPLY NOW at the following URL

<https://www.interviewexchange.com/jobofferdetails.jsp?JOBID=48036> or by navigating to the WIU Employment page at the following URL <http://www.wiu.edu/employment/>

Questions regarding the search may be directed to: Dr. Rose McConnell at rm-mcconnell@wiu.edu. For assistance with the online application system call the Office of Equal Opportunity and Access at (309)298-1977. AA/EO employer. WIU has a non-discrimination policy including sex, race, color, sexual orientation, gender identity and gender expression, religion, age, marital status, national origin, disability, and veteran status.

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 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.