

2014 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
April 7, 2014

Tuesday, April 8: *Third Year Organic Seminar: David Krist*
Ryan Hall 4003
11:00am – 12:00pm

Faculty Lunch Seminar: Toru Shiozaki
Tech K140
12:00 – 1:00pm

Wednesday, April 9: *Physical Seminar: David Reichman*
Ryan 4003
4:00 – 5:00pm

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

Announcements

A memorial service for Dr. Gregory Hillhouse, University of Chicago Chemistry professor, will be held on Saturday April 12, 2014 at 2:00pm in First St. Paul's Evangelical Lutheran Church, 1301 N. LaSalle Drive, Chicago.

http://articles.chicagotribune.com/2014-03-18/news/ct-gregory-hillhouse-obituary-20140318_1_school-chemistry-indiana-university-massachusetts-institute

BIP

Meets every Friday at 3:00pm in Tech K140

Arrivals

Serdar Akbayrak joined the Marks Group
Takatoshi Kawaji joined the Stoddart Group
Nazmi Sedefoglu joined the Poeppelemeier Group

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

Fixed Term General Chemistry Instructor at Michigan State University MSU invites applications for a fixed-term, full-time, one-year General Chemistry Instructor position in the Lyman Briggs College (LBC), an undergraduate science and liberal arts community (<http://lymanbriggs.msu.edu/>) We are searching for a creative and pedagogically oriented individual to join the LBC Chemistry group to fill this temporary position. The successful candidate will teach introductory chemistry lecture and laboratory at LBC during the 2014--2015 academic year.

The ideal candidate should have disciplinary or pedagogical research interests in Chemistry or Chemical Education. Ideal candidates will be broadly trained in chemistry and enthusiastic about joining the community of teaching-focused faculty within LBC. This position requires a strong commitment to teaching undergraduates and active learning pedagogical techniques. The position offers exciting opportunities for candidates interested in teaching in a small, liberal-arts college environment with all of the resources provided by a large "Big 10" research university. Requirements include a strong record of teaching and research, and a Ph.D. in Chemistry or Chemical Education.

Founded in 1967, LBC is a vibrant undergraduate, residential, liberal arts college at MSU focusing on the study of science and its interactions with society. The LBC curriculum integrates natural sciences and mathematics courses with courses in the history, philosophy, and sociology of science. The LBC student body is 60% women and 20% students of color; also, 20% belong to MSU's Honors College. The faculty works closely with students in small classes and with student groups such as the Briggs Multi-cultural Alliance and Women in Science.

This position is listed on the MSU Applicant Page, Posting # 9205. Applications must be uploaded to MSU's online job application site (<http://jobs.msu.edu>) and should include a cover letter, CV, and teaching portfolio, and copies of up to three representative publications. For teaching portfolio details see <http://lymanbriggs.msu.edu/faculty/openPositions.cfm> In addition, three letters of recommendation must be sent electronically by the recommenders through the application system. Letters should address the candidate's teaching experience, potential for excellence, and research scholarship. Review of applications will begin immediately and will continue until X. Questions regarding this position may be directed to Dr. Robert LaDuca, Professor of Chemistry, Associate Dean of Lyman Briggs College, at laduca@msu.edu, or at 919 E. Shaw Lane; Room E-35; Michigan State University; East Lansing, MI 48825-1107.

MSU is an affirmative action, equal opportunity employer. MSU is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities

Visiting Assistant Professor of Chemistry at Loras College is accepting applications for a full-time, non-tenure track position available in the Division of Molecular and Life Sciences beginning in Fall 2014. The successful candidate will teach: Quantitative Analysis for chemistry and biochemistry majors, Instrumental Analysis for chemistry majors, as well as laboratory sections of general chemistry

EDUCATION AND EXPERIENCE: Doctorate in analytical chemistry preferred

COMPENSATION: Commensurate with qualifications, education and experience. Fringe benefits include medical/dental/life/disability insurance, flexible spending plan, family membership in Graber Sports Center/San Jose Pool, free admission to many college events and free off-street parking.

DIVISION OF MOLECULAR AND LIFE SCIENCES has 11 full-time faculty members and a full-time laboratory technician. The division offers course work in the academic areas of Chemistry, Neuroscience and Biology. Degrees offered include B.S. in Biology, Chemistry, Biochemistry, Neuroscience, and Secondary Education Science Teaching. The chemistry program has extensive instrumentation including a 300 MHz broadband NMR, triple quad GC/MS, FTIR, AA, HPLC, Spectrofluorometer, DSC, TGA, DTA, UV-Vis spectrometers, and a recombinant DNA laboratory. Quantum Chemistry software and hardware are available. Every student has a college provided laptop computer, computers are integrated into many of the division classes and laboratories.

THE COLLEGE: Founded in 1839, Loras College is a Catholic, four-year, coeducational, liberal arts institution with preprofessional and career preparation and dedicated to high academic, ethical and moral standards. The student body consists of approximately 1,600 students, over 90 percent of who are full-time undergraduates. Candidates will be expected to support the mission of the College.

THE COMMUNITY: Loras College's 60 acre campus is located on one of Dubuque's highest bluffs, overlooking the Mississippi River at the junction of the states of Iowa, Illinois and Wisconsin, about 3 hours west of Chicago. Dubuque's population is approximately 60,000 and its nineteenth century architecture is woven into limestone bluffs and provides a picturesque backdrop to the river landscape. Many residential and commercial areas have been designated as historical districts to preserve Dubuque's unique heritage. Its strong education base supports numerous cultural activities, and in addition, there are sporting events, shopping facilities, schools, and churches that are convenient to its residents. The climate has marked seasons with a comfortable summer, cool spring and fall, and a winter that encourages a variety of sports that have in recent years attracted a growing tourism industry.

APPLICATION DEADLINE: Review of applications begins April 3, 2014. For more information contact, Dr. David Speckhard (david.speckhard@loras.edu) or call 563-588-7133.

APPLICATION: Please send your materials to David.speckhard@loras.edu : letter of application, curriculum vitae and the names of three references with contact information . AA/EOE. Women and minorities encouraged to apply. Please visit www.loras.edu for additional information about Loras College.

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.