

**2016 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**

November 7, 2016

***For full schedule, including Center events, please see the Department Calendar:***

<http://www.chemistry.northwestern.edu/events/calendar.html>

Tuesday November 8<sup>th</sup>:            *Faculty Lunch Seminar: Brian Hoffman*  
Tech K140  
12:00 – 1:00pm

Thursday November 10<sup>th</sup>:        *Chemistry Department Special Seminar: Peter M. Weber*  
*Brown University*  
Ryan 4003  
11:00am – 12:00pm

*Chemistry Department Special Seminar: Kris Matyjaszewski*  
*Carnegie Mellon University*  
Ryan 4003  
2:00-3:00pm

**BIP**

BIP meets every Friday 10-11:00am in Tech K140

**Arrivals**

Denis Leshchev joined the Chen Group  
Michael Yeung joined the Poeppelmeier Group

**Opportunities**

**National Institute of Standards and Technology, US Department of Commerce *Post-doctoral opportunity:* Dynamics in emerging materials for advanced energy and electronic applications**

Developing new measurements to probe the dynamics of excitonic decay, charge transport, and charge transfer in evolving materials systems, including organics, 2D materials, complex oxides, etc. and at their interfaces, is vital to advance applications in electronics and optoelectronics and for renewable energy applications seeking to improve electrocatalytic performance or photovoltaic efficiency. The Energy and Sustainability group at NIST invites post-doctoral applications in this area, with a starting date of approximately June, 2017. Our recent efforts have focused on interrogating exciton and charge separation dynamics at organic donor-acceptor interfaces for organic photovoltaics (OPV) applications using time-resolved two-photon photoemission (TR-2PPE). Probing dynamics in additional novel systems applicable in advanced electronics and solar energy/fuels, including nanostructured and 2D layered materials, and in the development and application of new measurement capabilities to investigate dynamics/charge transfer with nanosecond to sub-picosecond resolution are also of interest. Complementary techniques of one-photon photoemission, inverse photoemission, and, through collaboration, scanning tunneling microscopy and spectroscopy (STM, STS), allow access to interfacial molecular structure, nanoscale phase separation, and local electronic structure. Positions are funded through the prestigious National Research Council postdoctoral fellowship program. The next application deadline for this fellowship program is Feb. 1, 2017. If interested, please follow the contact information below as soon as convenient to ensure ample

time for assembling the application information by the deadline. NRC fellowships at NIST require US citizenship. *For further information, contact: [steven.robey@nist.gov](mailto:steven.robey@nist.gov)*

**The Department of Chemistry at Smith College** invites applications for a non-tenure-track, full-time position at the rank of Visiting Assistant Professor of Chemistry, to begin July 2017. The initial term of appointment is for two years, with the possibility of an additional reappointment for up to one year, conditional on performance and the needs of the College. The successful candidate will be prepared to offer a total of five courses per year in areas suited to the candidate's field of expertise. Specializations may include but are not limited to: General, Organic, Inorganic and Physical Chemistry, as well as Biochemistry and Environmental Chemistry. A Ph.D. in Chemistry is expected by the time of appointment and candidates with postdoctoral experience are encouraged to apply.

We seek a colleague engaged in learning, developing, and maintaining a dynamic curriculum that is responsive to the needs of Smith's diverse and talented student body. The Department of Chemistry has state-of-the-art facilities and instrumentation, and its faculty is dedicated to active research programs with undergraduate students. Research and mentoring of students is not required for visiting faculty, but visitors are welcome to participate. Details about the Department of Chemistry at Smith may be found at <http://www.smith.edu/chemistry>.

Located in the vibrant community of Northampton, MA, Smith College is the largest independent women's college in the country and is dedicated to excellence in teaching and research across the liberal arts. A faculty of outstanding scholars interact with students in small classes, as advisors, and through student-faculty research projects. The Five College Consortium, comprised of Smith, Amherst, Mount Holyoke, and Hampshire Colleges and the University of Massachusetts, Amherst, provides a rich intellectual and cultural life and broad collegial opportunities.

Submit application at <http://apply.interfolio.com/39001> with a cover letter, curriculum vitae, statement of teaching philosophy, unofficial copies of graduate and undergraduate transcripts, and three confidential letters of recommendation. Review of applications will begin November 15, 2016.

Diversifying the student body, faculty, administration, staff, and curriculum is crucial to the mission and vision for the College. We are committed to providing access and reasonable accommodation in the application process for individuals with disabilities and encourage applicants to request any needed accommodation(s). We value and are committed to a host of diverse populations and cultures, including, but not limited to, those based on ability, age, ethnicity, gender, gender identity, national origin, race, religion, sexual orientation, and veteran status.

Smith College is an EO/AA/Vet/Disability Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.

**The University of Minnesota, Morris, Division of Science and Mathematics** seeks to fill a tenure-track, 100% time, 9 month, Assistant Professor of Chemistry. This position will report to the division chair of Science and Mathematics. The qualifications for this position are as follows:

Required: Applicants must hold or expect to receive a Ph.D. in chemistry or a closely related field by August 14, 2017. A minimum of one-year experience teaching undergraduate organic chemistry is required; graduate TA experience is acceptable. Potential for excellence in teaching organic chemistry, general chemistry, and an advanced elective suitable for the chemistry major.

Preferred: More than one-year experience teaching undergraduate chemistry. Demonstrated research expertise in sustainable or environmental chemistry.

This tenure-track position carries all of the privileges and responsibilities of University of Minnesota faculty appointments. A sound retirement plan, excellent fringe benefits and a collegial atmosphere are among the benefits that accompany the position. Appointment will be at the Assistant Professor level for those having the Ph.D. in hand and at the Instructor level for those whose Ph.D. is pending. The standard teaching load is twenty credit hours per year.

About the Job

Duties/Responsibilities:

Teaching a wide range of undergraduate chemistry courses including general and organic chemistry lectures and labs, and an advanced elective; advising undergraduates; developing an active research program appropriate to UMM; and sharing in the governance and advancement of the chemistry program, the division, and the campus.

How To Apply:

Applications must be submitted on-line. To be considered for this position, please click the Apply button and follow the instructions. Attach a cover letter, curriculum vitae and as many supporting documents as are allowed. Applications must include a letter of application describing how working at a small liberal arts college fits into your career plan, a curriculum vitae, copies of graduate and undergraduate transcripts, a teaching statement documenting teaching effectiveness, a research statement proposing a research program that is viable at a small liberal arts college and accessible to undergraduates, and three letters of reference. Additional supporting documents may be emailed to: Ann Kolden, Administrative Assistant, at [koldenal@morris.umn.edu](mailto:koldenal@morris.umn.edu), (320) 589-6301, or they may be sent to:

Chemistry Search Committee Chair  
Division of Science and Mathematics  
University of Minnesota, Morris  
Morris, MN 56267-2128

Applications will be accepted until the position is filled. Screening begins November 10, 2016. Inquiries can be made to Ann Kolden, Executive Office and Administrative Specialist, at (320) 589-6301 or [koldenal@morris.umn.edu](mailto:koldenal@morris.umn.edu).

[https://www.myu.umn.edu/psp/psprd/EMPLOYEE/HRMS/c/HRS\\_HRAM.HRS\\_APP\\_SCHJOB.GBL?Page=HRS\\_APP\\_SCHJOB&Action=U&FOCUS=Applicant&SiteId=1](https://www.myu.umn.edu/psp/psprd/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_SCHJOB&Action=U&FOCUS=Applicant&SiteId=1)

**The Department of Chemical and Biomolecular Engineering (CBE) at the University of California, Berkeley,** seeks applications for a tenure-track position at the assistant professor level with an expected start date of July 1, 2017. The Department consistently ranks among the top research and teaching programs in the country and continues to be at the forefront in developing programs in emerging areas of chemical and biomolecular engineering and technology. Creative and energetic individuals who show extraordinary promise or accomplishment in any research area within chemical and biomolecular engineering will be considered, though candidates seeking to conduct work broadly defined as “catalysis” will receive special consideration. The minimum qualification required to be considered for the position is the completion of all Ph.D or equivalent degree requirements in chemical engineering or a closely related discipline at the time of application, and the applicant should have a Ph.D or equivalent degree in chemical engineering or a closely related discipline by date of hire.

Applicants should submit a cover letter, their most recently updated curriculum vitae, proposed research program, teaching statement and provide at least three but no more than five letters of recommendation. An optional statement regarding contributions to diversity may also be included.

Application materials should be submitted electronically through our web-based system at: <https://aprecruit.berkeley.edu/apply/JPF01106>.

All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (<http://apo.berkeley.edu/evalltr.html>) prior to submitting their letters.

Application material must be received by November 10, 2016. Interviewing will begin in late December, and early application is encouraged. If you would like to receive more information, please contact Professor David Graves at [graves@berkeley.edu](mailto:graves@berkeley.edu).

UC Berkeley is committed to diversity in all aspects of our mission and to addressing the family needs of faculty, including dual career couples and single parents.

Please visit the CALcierge page for information about potential relocation to Berkeley, or career needs of accompanying partners and spouses: <http://ofew.berkeley.edu/new-faculty>. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffimAct>.

**The University of Central Florida (UCF)** recently established six interdisciplinary clusters to strengthen its academic offerings and research mission. In support of this effort, we are hiring three more tenure-earning assistant professors into a newly established cluster: Rational Design of Catalysts for Energy Applications and Propulsion ([www.ucf.edu/research/energy](http://www.ucf.edu/research/energy)). One of these positions may be considered at a higher level (associate or full). These positions will build on our existing strengths in catalysis science and engineering. Applications of interest to the cluster include, but are not limited to, fuel cells, batteries, supercapacitors, biomimetic catalysis, artificial photosynthesis, thermo-chemical processing of biomass, photocatalytic production of fuels, and combustion catalysts. Ideal candidates must have a Ph.D. in an appropriate field related to the cluster and will have a strong background and track record of experimental research in one or more of the following areas:

- Synthesis of alternative fuels
- Chemical or bio-catalysis at the nanoscale
- Chemical or bio-catalysis for large-scale reactor design
- Photocatalysis
- Electrochemistry/electrochemical engineering

Faculty in these interdisciplinary positions will be expected to strengthen both the research cluster and their tenure home department (physics, chemistry, mechanical and aerospace engineering). Both individual and interdisciplinary infrastructure and startup are expected with these 5 new positions. Each new faculty member will have a unique interdisciplinary mentoring team to foster intellectual breadth and to facilitate integrative capacity to strengthen the success of the cluster.

Candidates must apply online at <http://www.jobswithucf.com/postings/36402> (Position #36402) and attach the following materials: 1) a cover letter; 2) a curriculum vitae; 3) a statement of research plans and goals; 4) a statement of teaching philosophy including any experience/familiarity with student-centered

learning approaches; and 5) reprints of 2-3 recent key publications. In the cover letter candidates should address their background in catalysis, synthesis of catalyst materials, photocatalysis and/or alternate fuels, as appropriate. While majority of the five positions will be offered as tenure-track assistant professors; commensurate with the prior experience and record candidates may be considered for associate, or full professor.

Candidates will have the option of choosing their tenure home department.

The search committee will begin reviewing applications October 15, 2016 and continue to accept applications until the positions are filled.

The University of Central Florida, the nation's second-largest university with more than 61,000 students, has grown in size, quality, diversity, and reputation in its first 50 years. Today, the university offers more than 200 degree programs at its main campus in Orlando and more than a dozen other locations. UCF is an economic engine attracting and supporting industries vital to the region's future while providing students with real-world experiences that help them succeed after graduation. For more information, visit <http://ucf.edu>. UCF is an Equal Opportunity and Affirmative Action employer. All applicants are encouraged to apply, including minorities, women, veterans, and individuals with disabilities.

For more information about these positions please contact Dr. Talat S. Rahman, the Cluster Search Chair, at [talat.rahman@ucf.edu](mailto:talat.rahman@ucf.edu)

**The Department of Biological and Environmental Engineering at Cornell University** invites applicants for a tenure-track position at the rank of Assistant Professor in the field of biological engineering. The position is open to all biological engineers with an interest in developing advanced technologies for monitoring and understanding biological and environmental systems to meet the challenges of unprecedented climate change and diverse social economic landscape. The appointee will establish a strong research program in the area of applied measurement science for a range of applications related to biological, agricultural, and environmental systems. Some examples include, but are not limited to, detection of pathogenic organisms as epidemics emerge from toxins in our food and water supplies, monitoring plant and animal responses to various environmental stressors, and agro-ecosystem responses to different management decisions. Strong skills in two or more of the following areas are preferable: electronics, microfluidics, synthetic biology, molecular biology, plant or animal physiology, biogeochemistry, electrochemistry, and ecology.

The appointee is expected to teach a bioinstrumentation course for biological engineers at the junior level. This course will address advanced tools that engineers use to quantitatively analyze biological systems at the molecular, cellular and tissue scales. A second course will be at the graduate level associated with the appointee's research area. Advising undergraduate students and mentoring postdocs and graduate students is also expected. This individual would contribute primarily to our biological engineering BS program but would also be open to participating in our environmental engineering BS program and CALS initiatives in Environmental Science and Sustainability.

This position is offered in a rich environment of many university wide centers at Cornell including Atkinson Center for a Sustainable Future, the Nanobiotechnology center, the Center for Materials Research, and the Center for Nanoscale Science and Technology. Collaboration within and outside the department is encouraged and expected. This position requires a balanced effort between research (50%) and teaching (50%) on a 9-month academic year basis.

*Qualifications:*

A Ph.D. in an appropriate discipline is required with demonstrated capability and success in developing research and teaching programs at the interface of engineering and biological sciences. A strong background in engineering and biology is required and an engineering degree is preferred.

*Applications and Starting Date:* Anticipated starting date is July 2017. Applications including a CV, statements of research and teaching interests, copies of relevant publications, three reference letters, and unofficial transcripts should be submitted online at: <https://academicjobsonline.org/ajo/jobs/6220> . Applications will be accepted and reviewed until this position is filled. Applications will be reviewed beginning November 2016.

To strengthen an already diverse faculty, the department encourages women and underrepresented minorities to apply for this position.

**The Division of Chemical Biology and Medicinal Chemistry at The University of Texas at Austin College of Pharmacy** invites applications for a full-time tenure-track faculty position at the Assistant Professor level, effective August 2017. The division (<http://sites.utexas.edu/medchem/>) is a highly interdisciplinary and interactive group engaged in cutting edge research.

The successful applicant will engage in productive interdisciplinary research, provide high-quality teaching, and actively participate in university service. The candidate will be expected to establish a vigorous and externally funded research program focusing on chemical and molecular mechanisms of high biomedical significance. All highly qualified candidates will be considered, but those with research interests related to cancer or infectious diseases will be viewed more favorably. Teaching in the professional (Pharm.D.) program and development of graduate courses in the area of research expertise are expected. The position carries a highly competitive salary, benefits, and start-up package.

#### Qualifications

Ph.D. in a relevant field.

#### Application Instructions

Applicants should submit a cover letter, curriculum vitae, research plan, and a list of 3 references.

Applications received before December 1, 2016 will receive first consideration, but applications will be accepted until the position is filled. <https://apply.interfolio.com/36240>

**The School of Engineering (STI) of EPFL** invites applications for a tenure-track assistant professor position in inorganic materials within the Institute of Materials. We seek exceptional individuals who will develop and drive a research program at the forefront of the discipline, who have a strong dedication to teaching at the undergraduate and graduate levels, and who will be proactive members of a vibrant Materials community.

Top-level applications are invited in all areas related to the design, synthesis, processing and characterization of functional inorganic materials including, but not limited to: materials for energy harvesting, conversion or storage; novel semiconductors; electronic, catalysis or photonic materials as well as materials for information technology or devices.

As a faculty member of the School of Engineering, the successful candidate will be expected to initiate an independent and creative research program and participate in undergraduate and graduate teaching. Internationally competitive salaries, start-up resources and benefits are offered.

EPFL, with its main campus located in Lausanne, Switzerland, is a dynamically growing and well funded institution fostering excellence and diversity. It has a highly international campus at an exceptionally attractive location boasting first-class infrastructure. As a technical university covering essentially the entire palette of engineering and science, EPFL offers a fertile environment for research cooperation between different disciplines. The EPFL environment is multi-lingual and multi-cultural, with English often serving as a common interface.

Applications should include a cover letter with a statement of motivation, curriculum vitae, list of publications and patents, concise statement of research and teaching interests, and the names and addresses of at least five referees. Applications must be uploaded in PDF format to the recruitment web site: [www.go.epfl.ch/imx-search](http://www.go.epfl.ch/imx-search)

Formal evaluation of candidates will begin on December 1st, 2016 and continue until the position is filled.

Enquiries may be addressed to:

Prof. Harm-Anton Klok; Search Committee Chair; E-mail: [imx-search@epfl.ch](mailto:imx-search@epfl.ch)

For additional information on EPFL, please consult the web site: [www.epfl.ch](http://www.epfl.ch)

*EPFL is committed to increasing the diversity of its faculty, and strongly encourages women to apply.*

**The School of Sciences at Indiana University Kokomo** invites applications for a full time, tenure-track, 10-month, organic chemistry position at the assistant professor level beginning August 1, 2017. Information about the School can be found at: [www.iuk.edu/sciences](http://www.iuk.edu/sciences)

Responsibilities include teaching organic chemistry I and II (lectures and labs), general chemistry courses, and additional courses such as a freshman learning community course, the chemistry capstone, or other upper-level chemistry courses depending on qualifications. Course load will be 72% FTE per semester. Research with undergraduates is expected and supported. Publication is required for promotion and tenure. Candidates specializing in any area of organic chemistry are encouraged to apply. An appropriate level of university/professional/community service is also required (e.g. committee work, assessment of the major, and engagement in campus initiatives to increase retention and enrollment).

Requirements include a Ph.D. in organic chemistry or in a closely related area with thesis work in organic chemistry, experience teaching undergraduate chemistry (lecture and/or lab courses), and research potential in the field (e.g., publications, external funding). Postdoctoral experience, experience teaching organic chemistry lecture courses, experience teaching introductory chemistry lecture courses, engaging in outreach activities, and/or working with undergraduates in research is preferred.

Salary is competitive and includes an excellent fringe benefits package. Although the review process will commence November 7, 2016, applications will be accepted until the position is filled. Interested candidates should review the application requirements and submit their application at: <https://indiana.peopleadmin.com/postings/2761>. Questions regarding the position or application process can be directed to Lu Ann Name, School of Sciences, Indiana University Kokomo, P.O. Box 9003, Kokomo, IN 46904-9003, [Lname@iuk.edu](mailto:Lname@iuk.edu). The application must include a cover letter, a *curriculum vitae* outlining appropriate education and work experience, a one-page statement outlining teaching philosophy, a one-page statement outlining research agenda, unofficial copies of undergraduate and graduate transcripts, and the names, mailing addresses, email addresses, and telephone numbers of at least three professional references.

One of eight campuses of Indiana University, Indiana University Kokomo is a comprehensive non-residential campus located 50 miles north of Indianapolis in Kokomo, Indiana, a city with a population of approximately 55,000. Committed to student success, the campus serves approximately 3,100 students from a 14 county area in north central Indiana. IU Kokomo has approximately 260 full time faculty and staff. Associate, Baccalaureate, and Master degrees are offered. Additional information about Indiana University Kokomo can be accessed at <http://www.iuk.edu>.

Indiana University Kokomo seeks faculty skilled at working with members of diverse cultures and committed to preparing students to be engaged members of an increasingly diverse society.

Indiana University Kokomo is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regards to race, color, ethnicity, religion, age, sex, sexual orientation or identity, national origin, disability status, or protected veteran status. This institution is also a provider of ADA services.

**The Getty Conservation Institute's (GCI)** postdoctoral fellowship is a two-year program designed to provide recent PhDs in chemistry and the physical sciences with experience in conservation science. The 2017-2019 Postdoctoral Fellow will be an integral part of the GCI Science's Technical Studies research area, and as such will work closely with conservation and curatorial colleagues from across the Getty, gaining experience in cultural heritage research as conducted within a museum environment. (<http://www.getty.edu/conservation/about/science/index.html> ).

The Technical Studies research group focuses on the study of works of art to answer questions related to an artist's materials and techniques, workshop practice, attribution/provenance, and how the constituent materials might have altered or degraded over time. Projects vary widely in size and scope, and emphasis is given to projects that benefit the conservation field more broadly. Some projects may focus on a single artist, or school of artists, to examine trends in the development of artistic practice; others may examine a broad class of objects in order to elucidate historic technologies; and others may concentrate on a specific artist's material to better understand its properties or use, or to identify ways of assessing geographic provenance. As such, the scientific studies that form the foundation of this research are necessarily multi-faceted, employing a wide variety of analytical techniques, ranging from whole object imaging technologies to the examination of materials at the nano-scale.

The Postdoctoral Fellow is expected to engage with, and be involved in, both new and existing projects and research partnerships being conducted in the area of Technical Studies Research; the primary focus of the Fellow's research activities will be the area of implementing/developing advanced imaging technologies (including both visual and spectroscopic imaging) and data visualization. The Fellowship thus will be particularly suited to candidates having a strong background in imaging and computer science at the graduate level. In addition to working on existing or nascent research projects, there is scope for the Fellow to pursue independent research on a topic of their own choosing, and to take full advantage of the diverse research facilities available at the Getty. Professional development will be encouraged and assisted through participation in professional meetings, conferences or workshops. It is hoped that the Fellow's research outcomes will be disseminated through publications and conference presentations, both to the scientific community and to art conservation practitioners.

Applicants should have a recent (2010 or later) PhD in a relevant field, including but not limited to, computer/imaging science, analytical/physical chemistry, optical/electrical engineering or materials science. Experimental research experience and strong instrumental analysis skills are also desirable. Demonstrable aptitude for self-directed learning and for working across academic disciplines is critical, as are excellent written and verbal communication skills. Candidates should have an interest in the visual arts and a serious interest in pursuing a career in conservation science within the museum environment. The fellowship runs from September 2017 to August 2019. In addition to an annual stipend, the fellow will be provided an annual study trip allowance and generous benefits including travel to, and housing in, Los Angeles and full health benefits.

DEADLINE: November 15, 2016

HOW TO APPLY: A completed online application (which includes uploading a Statement of Interest; Doctoral Dissertation Plan or Abstract; Curriculum Vitae; Writing Sample; and Confirmation of Degree) must be received by the deadline. Two Confidential Letters of Recommendation must be sent separately to [GCIPostDoc@Getty.edu](mailto:GCIPostDoc@Getty.edu).

Interested candidates should apply through the Getty's Job Opportunities webpage:

<https://jobs-getty.icims.com/jobs/2835/gci-postdoctoral-fellow/job>



**Northwestern University Office for Research Safety** is looking for a Chemical Hygiene Officer. This position will serve as the campus-wide Chemical Hygiene Officer (as required by OSHA) and function as the ORS resident expert on chemical safety, toxicology and risk assessment involving the safe use and storage of hazardous chemicals in teaching and research. This position will also work in cooperation with the EHS function in Risk Management to ensure a common approach to chemical safety across NU. The individual will ensure OSHA compliance with the “Laboratory Standard” (29 CFR 1910.1450) by ensuring that a key compliance document—the Chemical Hygiene Plan—meets the needs of the campus and is kept current.

This position performs risk and compliance assessments, and promotes safe work practices within Northwestern University managed research laboratories—specifically the Chemistry Department. The incumbent will work with the principal investigators, researchers and administrators in assigned departments to prepare and update standard operating procedures and policies. Safety support services include laboratory safety inspections, development of training content, response to laboratory emergencies, incident investigations and other services.

*Please note:* Candidate must carry a cell phone, pager at all times while at work. May be required to wear a pager during off-hours. Incumbent must be physically capable of hazardous materials response: wearing chemical protective clothing and a self-contained breathing apparatus during emergency response.

**Specific Responsibilities:**

- Serves in the official capacity of Chemical Hygiene Officer for NU as the ORS residential expert on chemical safety, toxicology and risk assessment involving the safety use and storage of hazardous chemicals in teaching and research.
- Works with principal investigators and researchers to integrate safety procedures into laboratory operations. Promotes safe work practices based on regulatory requirements, incident experience, best management practice, and University policy. Performs the more complex risk and industrial hygiene assessments and safety audits, and drafts performance reports. Acts as the subject matter expert to make recommendations on appropriate laboratory safety practices and exposure control.
- Collaborates with principal investigators, safety designates, students, staff and contractors. Leads the development of guidelines, training content and standard operating procedures for the more complex or novel safety operations involving inhalation toxicity, chemical reactions under high pressure, highly reactive chemicals, hazardous energy lock-out, electrical safety, and engineered nanomaterials. Assists researchers with the management of chemical inventory processes.
- Under limited direction, develops contingency plans for emergency response and drills with all stakeholders. Serves as one of ORS's field deployed safety and health representatives and certified hazardous materials shippers.
- Reviews new regulatory requirements for applicability to research safety and assess the impact of new or proposed regulations on laboratory safety resource needs. Researches scientific publications and other academic safety programs for innovative approaches to safety operations and develops recommendations for improvements or simplification.
- Improves own professional skills through outreach, training and acquiring certification.
- Performs other duties as assigned.

**Minimum Qualifications:**

- Successful completion of a full course of study in an accredited college or university leading to a master's degree in chemistry, physics, biology, environmental science or equivalent and five or more years of relevant research safety experience.
- OR appropriate combination of education and experience.

- Must pass pre-employment physical screening. Fit to carry 50lbs, walk extensively, and be medically approved to wear chemical protective clothing including respirators. Must have no medical condition that would interfere with performing essential job functions.
- Must be able to respond to potential emergencies of the Evanston campus, off hours and weekends within one hour.
- Excellent interpersonal skills, ability to work with individuals from many cultural backgrounds and varying language skills.
- Demonstrated written and oral presentation skills, ability to keep careful records, complete assigned forms, follow up as necessary to meet identified needs.
- Self-motivated to work independently following established policies and procedures.

**Preferred Qualifications:**

- PhD degree in chemistry, physics, biology, environmental science or equivalent and three to five years' experience managing laboratory safety programs.

[https://nuhr.northwestern.edu/psp/hr91prod\\_er/EMPLOYEE/HRMS/c/HRS\\_HRAM.HRS\\_CE.GBL?Page=HRS\\_CE\\_JOB\\_DTL&Action=A&JobOpeningId=29372&SiteId=1&PostingSeq=1](https://nuhr.northwestern.edu/psp/hr91prod_er/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_JOB_DTL&Action=A&JobOpeningId=29372&SiteId=1&PostingSeq=1)