

**2014 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**October 27, 2014**

Monday October 27<sup>th</sup>:            *Special Seminar: Hiroaki Misawa*  
   Ryan Hall 4003  
   4:00 – 5:00pm

Tuesday October 28<sup>th</sup>:            *Faculty Lunch Seminar: Igal Szleifer*  
   Tech K140  
   12:00 – 1:00pm

Friday October 31<sup>st</sup>:            *Chemistry Colloquium: Adel Mesbah*  
   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>

### **Events**

The annual Eberhard Halloween Shows will be on Friday October 31<sup>st</sup> in Tech LR3. Show times are 9:00am, 10:00am, 11:00am, and 1:00pm. Admission is free. Please contact Sam Ritchey ([s-ritchey@northwestern.edu](mailto:s-ritchey@northwestern.edu)) to be added to the guest list.

### **BIP**

Meets every Friday at 2:45pm in Tech K140

### **Arrivals**

There were not any new arrivals last week

### **Opportunities**

**The Department of Chemistry in the College of Science and Mathematics at California State University, Fresno** is accepting applications for a tenure-track academic year position in Chemical Education at the rank of Assistant Professor. The successful candidate will provide effective instruction and advising to a diverse student population. In addition to teaching responsibilities, the successful applicant is expected to develop an active research program in the discipline of chemical education, involving undergraduate or graduate students. Desired research areas include undergraduate education, science teacher preparation and/or professional development of teachers, teaching assistants and/or faculty members. Specific teaching assignments will depend on departmental needs, but will likely involve general and introductory chemistry courses. The candidate will be responsible for taking a leadership role in department efforts to enhance student success in lower division chemistry courses. The candidate will be expected to implement evidence based best practices in their teaching of these courses and to share their knowledge of teaching and assessment techniques with the department. Other responsibilities include continuing development of professional capabilities and scholarly activities, curriculum development and redesign, participation in department, college, and university governance, and professional service.

As a specialist in chemical education, the selected candidate will have opportunities to participate in cross-disciplinary educational initiatives at the university as their career progresses. This includes potential participation in a current National Science Foundation funded faculty learning community (NSF DUE WIDER #1357822) to redesign lower division chemistry courses. The candidate may also choose to work closely with educational faculty in other departments in the College and in shaping a new vision, direction and programs of the Science and Mathematics Education Center (SMEC).

Overview: The Department of Chemistry at Fresno State offers an ACS recognized BS Chemistry degree, a BA Chemistry degree designed for pre-health professional students, and a thesis based MS degree in Chemistry to approximately 308 undergraduate and 25 graduate students. The 15 full time faculty have a commitment to excellence in both teaching and research and to the success of our students. Department faculty have received 4 Provost's awards in teaching, research, and mentorship and 4 promising new faculty awards since inception of the awards in 1994. The Fresno State Chemistry Club is an active, engaged, and successful ACS student affiliate with five outstanding chapter, one commendable chapter, and three green chemistry awards in the last six years. The department offers students outstanding access to a variety of major instrumentation. A list of instrumentation available for student research can be found at <http://www.fresnostate.edu/csm/chemistry/research/facilities.html>

Library resources to support research and classroom instruction include both SciFinder and Web of Science along with electronic access to a wide variety of major journals, including ACS and Elsevier subscriptions.

Required Education: An earned doctorate (Ph.D.) in chemical education, chemistry, or other closely related disciplines from an accredited institution (or equivalent) is required.

Required Experience: 1) Evidence of publications in scholarly journals; 2) demonstration of grant writing or scholarly activity at the university level, and; 3) ability to demonstrate a commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds.

Preferred Qualifications: 1) Successful teaching experience at the undergraduate level; 2) productive postdoctoral research or experience; 3) a publication record that is commensurate with the candidate's experience; 4) ability to obtain extramural grants and contracts for research; 5) concrete strategies for closing the achievement gap of underrepresented groups and first generation college students in general and introductory chemistry courses; and 6) knowledge of student and program assessment techniques and strategies.

Application Procedures: Review of applications will begin November 14, 2014, and may continue until the position is filled. To apply, applicants must complete an on-line application at <http://jobs.fresnostate.edu> and attach the following: 1) a cover letter specifically addressing required experience and preferred qualifications; 2) a curriculum vitae; 3) a statement of research interests; 4) a statement of teaching philosophy; and 5) the names, titles, addresses, phone/fax numbers, and email addresses of five professional references. Finalists will be required to submit 1) three current letters of recommendation and 2) official transcripts. For inquiries, contact: Dr. Eric Person, Search Committee Chair; California State University, Fresno; College of Science and Mathematics; Department of Chemistry; 2555 E. San Ramon Ave, SB70; Fresno, CA 93740-8034; Phone: 559-278-2170; E-mail: [eperson@csufresno.edu](mailto:eperson@csufresno.edu).

**Postdoctoral researcher in the McNally group at Colorado State University** to work on developing new catalytic reactions to transform renewable and abundant feedstocks into valuable chemical compounds. A background in synthetic chemistry is desirable as well as enthusiasm and dedication for high qualitative science. Please see <http://www.chem.colostate.edu/people/amcnally/> for more details and send a CV and brief research summary to [Andy.McNally@colostate.edu](mailto:Andy.McNally@colostate.edu) for consideration.

**The Department of Chemistry at Wright State University in Dayton, OH** invites applications for a full-time tenure-track organic chemist at the ASSISTANT PROFESSOR level to begin Fall 2015. We are seeking candidates who can contribute to a growing interdepartmental cluster in the chemistry and physics of advanced materials. The successful candidate will be expected to establish a vibrant, extramurally funded program of research in organic chemistry that will complement existing expertise in surface, synthetic, environmental, and structural chemistry. Teaching may include contributing to the department's courses in introductory and intermediate organic chemistry, and the candidate's area(s) of expertise. A doctoral degree in chemistry with postdoctoral experience is required.

Departmental faculty participate in the Chemistry MSc program and the interdisciplinary Environmental Sciences and Biomedical Sciences PhD programs. Resources in support of research include state-of-the-art instrumentation, and opportunities to collaborate with individuals at numerous regional industrial, and research institutions, including the Air Force Research Laboratory at Wright Patterson Air Force Base.

A competitive start-up package will be tailored to the specific needs of the successful candidate. WSU has nearly 20,000 undergraduate and graduate students, and the Department of Chemistry graduates approximately 30 undergraduate students and 12 graduate students per year. More information about Wright State University, the Department of Chemistry, its graduate programs, and this open faculty position can be found at <http://chemistry.wright.edu>. Criteria for promotion and tenure in Chemistry at WSU can be found at <http://science-math.wright.edu/chemistry/about/bylaws>

Applicants should submit a letter of application, curriculum vitae, statements of research and teaching interests, and the names and contact information for three letters of reference via <http://jobs.wright.edu/postings/8090> by December 1, 2014 for first consideration.

Wright State University, an equal opportunity/affirmative action employer, is committed to an inclusive environment and strongly encourages applications from minorities, females, veterans and individuals with disabilities.

**The Department of Chemistry at Wright State University in Dayton, OH** invites applications for a full-time tenure-track analytical chemist at the ASSISTANT PROFESSOR level to begin Fall 2015. We are seeking candidates who can contribute to a growing interdepartmental cluster in global change research and the interdisciplinary Environmental Sciences PhD program (<http://sciencemath.wright.edu/environmental-sciences-phd>). The successful candidate will be expected to establish a vibrant, extramurally funded program of research in analytical chemistry that will complement existing expertise in surface, synthetic, environmental, and structural chemistry. Teaching may include contributing to the department's courses in general and analytical chemistry, and the candidate's area(s) of expertise. A doctoral degree in chemistry with postdoctoral experience is required.

Departmental faculty participate in the Chemistry MSc program and the interdisciplinary Environmental Sciences and Biomedical Sciences PhD programs. Resources in support of research include state-of-the-art instrumentation, and opportunities to collaborate with individuals at numerous regional industrial, and research institutions, including the Air Force Research Laboratory at Wright Patterson Air Force Base.

A competitive start-up package will be tailored to the specific needs of the successful candidate. WSU has nearly 20,000 undergraduate and graduate students, and the Department of Chemistry graduates approximately 30 undergraduate students and 12 graduate students per year. More information about Wright State University, the Department of Chemistry, its graduate programs, and this open faculty position can be found at <http://chemistry.wright.edu>. Criteria for promotion and tenure in Chemistry at WSU can be found at <http://science-math.wright.edu/chemistry/about/bylaws>

Applicants should submit a letter of application, curriculum vitae, statements of research and teaching interests, and the names and contact information for three letters of reference via <http://jobs.wright.edu/postings/8091> by November 17, 2014 for first consideration.

Wright State University, an equal opportunity/affirmative action employer, is committed to an inclusive environment and strongly encourages applications from minorities, females, veterans and individuals with disabilities.

**The Department of Medicinal Chemistry and Molecular Pharmacology (<http://www.mcmp.purdue.edu/>) at Purdue University** invites applicants for multiple tenure-track faculty positions at all levels with particular emphasis on the application of modern synthetic organic chemistry to the design of drugs and/or modulators for biological targets.

The Department offers a unique multidisciplinary environment with synergistic strengths in chemistry, biochemistry, biology, pharmacology, and drug discovery. Purdue University has notable strengths and resources in analytical methods, nanotechnology, structural biology, and computation through the Bindley Bioscience and Birck Nanotechnology Centers in Discovery Park ([www.purdue.edu/discoverypark/](http://www.purdue.edu/discoverypark/)) the Markey Center for Structural Biology ([www-structure.bio.purdue.edu/](http://www-structure.bio.purdue.edu/)) and the Rosen Center for Advanced Computing ([www.rcac.purdue.edu/](http://www.rcac.purdue.edu/)). Additional significant resources are available through the Purdue Center for Cancer Research ([www.cancerresearch.purdue.edu/](http://www.cancerresearch.purdue.edu/)) and the newly founded Purdue University Center for Drug Discovery (<http://www.purdue.edu/research/pcdd/>), which in conjunction with the Indiana Clinical and Translational Sciences Institute provides a seamless path for drug development. Student recruiting opportunities through the Department as well as through the Purdue University Interdisciplinary Life Sciences Program (PULSe) ([www.gradschool.purdue.edu/PULSe/](http://www.gradschool.purdue.edu/PULSe/)) offer substantial potential for building a productive research group.

#### Qualifications

- Candidates must have a Ph. D. degree or terminal doctorate (e.g. D.Sc.) in Chemistry, Medicinal Chemistry, Organic Chemistry or a related scientific field and relevant post-doctoral experience.

#### Duties & Responsibilities

- Establish and/or maintain a strong extramurally-funded research program
- Participate in undergraduate, pharmacy, and graduate education/teaching

#### To Apply Submit:

- Cover letter
- Curriculum vita
- Statement of teaching philosophy and experience
- Summary of planned and/or ongoing research

Review of applications will begin October 15, 2014 and will continue until the positions are filled. Applications will be held in confidence until the interview phase of the process, and applicants' permission to contact references prior to that time will be obtained. A background check is required for employment in this position.

#### Application Guidance:

- Please note the maximum size of a file attachment allowed is 1MB and the maximum number of file attachments allowed per applicant is 10
- To ensure all application materials are uploaded, please use Word documents or reduce the size of PDF files
- If a document is not uploading for any reason, please send it as an attachment to Barbara Mullenburg at [davidsba@purdue.edu](mailto:davidsba@purdue.edu)
- Letters of recommendation should be sent to Barbara Mullenburg at [davidsba@purdue.edu](mailto:davidsba@purdue.edu)
- For technical assistance, please email [taleohelp@purdue.edu](mailto:taleohelp@purdue.edu)

*Purdue University is an EEO/AA employer. All individuals, including minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.*

**The Department of Chemistry in the College of Liberal Arts and Sciences at the University of Connecticut** invites applications for an Assistant/Associate/Full Professor nine-month, tenure-track appointment starting in August, 2015. Applicants are sought with research experience in materials, biological chemistry, or surfactant structures, with preferred focus on applications of emulsions, micelles and surfactants. Candidates whose research complements or supports development of these areas will also be considered. The position will be in the Green Emulsions, Micelles and Surfactants (GEMS) Center, a new collaborative Center in the Department of Chemistry.

Successful applicants will be expected to develop well-funded, nationally and internationally recognized research programs and to be involved in GEMS collaborations. Simultaneous excellence in teaching at undergraduate and graduate levels is also required, as well as the ability to contribute through research, teaching and/or public engagement to the diversity and excellence of the learning experience. Salary and rank will be determined based on qualifications.

Minimum qualifications include: a Ph.D. or equivalent in chemistry or a closely related field in hand by the time the appointment begins; outstanding record of research accomplishments in Chemistry or a related field; and strong oral and written communication skills.

To apply, please visit the University's *Husky Hire* online application system at:

<https://academicjobsonline.org/ajo/jobs/4369> to submit a cover letter, curriculum vitae, a detailed description of research projects and a brief statement of teaching philosophy and interest. Additionally, please follow the instructions in Academic Jobs Online to direct reference writers to submit letters of reference on your behalf.

Screening of applications will begin immediately. For full consideration please apply by January 1, 2015.

Please include the search number with all correspondence. Search # 2015046

All employees are subject to adherence to the State Code of Ethics which may be found at

<http://www.ct.gov/ethics/site/default.asp>.

*The University of Connecticut is committed to building and supporting a multicultural and diverse community of students, faculty and staff. More than 100 research centers and institutes serve the University's teaching, research, diversity, and outreach missions, leading to UConn's ranking as one of the nation's top research universities. As an Affirmative Action/Equal Employment Opportunity employer, UConn encourages applications from women, veterans, people with disabilities and members of traditionally underrepresented populations.*

**The Department of Chemistry in the College of Science and Mathematics at California State University, Fresno** seeks applicants for a tenure-track academic year position, as an Assistant Professor in Organic Chemistry. The successful candidate will have teaching responsibilities primarily in the area of organic chemistry, but may also be asked to teach and contribute to the general chemistry program. The successful candidate is expected to develop a productive research program involving undergraduate and M.S. graduate students. Instructional workload is 12 Weighted Teaching Units (WTUs) per semester. In the first two years, the Department and College typically reduces the teaching load by 50% per semester to allow new faculty extra start-up time for teaching, scholarly work, research, and other professional development efforts. As faculty members progress through their careers, university statistics show that the average instructional load is typically 9 WTUs per semester, as opposed to the formal expectation of 12, usually achieved through assigned-time funded by the College or University or through external grants.

Overview: The Department of Chemistry at California State University, Fresno offers an American Chemical Society recognized BS Chemistry degree, a BA Chemistry degree designed for pre-health professional students, and a thesis based MS degree in Chemistry to approximately 220 undergraduate and 18 graduate students. The 15 full time faculty have a commitment to excellence in both teaching and research, and to the success of our students. Department faculty have received four Provost's awards in teaching, research, and mentorship and three promising new faculty awards since 1994, when these awards were established. The Fresno State Chemistry Club is an active, engaged, and successful ACS student affiliate with five outstanding chapter, one commendable chapter, and three green chemistry awards in the last six years. The Department is active in research and faculty and students have access to a wide variety of major instrumentation. A list of instrumentation available for research can be found at <http://www.fresnostate.edu/csm/chemistry/research/facilities.html> Library resources to support research and classroom instruction include both SciFinder and Web of Science along with electronic access to a wide variety of major journals, including ACS and Elsevier subscriptions.

Required Education: An earned doctorate (Ph.D.) in organic chemistry or a closely related discipline from an accredited institution (or equivalent) is required.

Required Experience: 1) University-level teaching experience; 2) Demonstrated success with research and scholarly activities, including a recent research publication record; 3) Ability to demonstrate a commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds.

Preferred Qualifications: Preference will be given to candidates who have: 1) Completed postdoctoral research or have industrial experience; 2) Conducted research which complements the research in the department or university, and; 3) Demonstrated success in obtaining outside funding to support their research.

Application Procedures: Review of applications will begin November 10, 2014 and will continue until the position is filled. To apply, applicants must complete an on-line application at <http://jobs.fresnostate.edu> and attach the following: 1) a cover letter specifically addressing required experience and preferred qualifications; 2) a curriculum vitae; 3) a one page statement of teaching philosophy; 4) a statement of research plans; and 5) a list of three professional references. Finalists will be required to submit 1) three current letters of recommendation and 2) official transcripts. For inquiries contact the search committee chair, Dr. Joseph Gandler, Department of Chemistry, California State University 2555 E. San Ramon Ave., MS SB70, Fresno, CA 93740 Email: [josephg@csufresno.edu](mailto:josephg@csufresno.edu)

**Department of Chemistry at the University of Massachusetts, Amherst** Applications are invited for a full time, tenure track faculty position at the Assistant Professor level to begin September 2015 or thereafter. We seek applicants who will develop a vigorous research program at the interface between organic chemistry and other disciplines, especially materials and biological sciences. A Ph.D. or equivalent in Chemistry or a related field is required. Salary will be commensurate with qualifications and experience.

We are seeking talented applicants qualified for an assistant professor position. Under exceptional circumstances, highly qualified candidates at other ranks may receive consideration.

Applicants should submit a cover letter, curriculum vita, statements of research, and the names and contact information for three references, on-line at:

<http://umass.interviewexchange.com/jobofferdetails.jsp?JOBID=53227>

All potential applicants should visit the Department of Chemistry's website (<http://www.chem.umass.edu>) for further information about this position. Questions can be directed to the Search Committee Chair at

facultysearch@chem.umass.edu. Evaluation of applicants will begin on October 27, 2014 and may continue until a suitable candidate pool has been identified.

The university is committed to active recruitment of a diverse faculty and student body. The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans, and individuals with disabilities and encourages applications from these and other protected group members. Because broad diversity is essential to an inclusive climate and critical to the University's goals of achieving excellence in all areas, we will holistically assess the many qualifications of each applicant and favorably consider an individual's record working with students and colleagues with broadly diverse perspectives, experiences, and backgrounds in educational, research or other work activities. We will also favorably consider experience overcoming or helping others overcome barriers to an academic degree and career.

**The Department of Chemistry, Western Illinois University (WIU)**, invites applications for a tenure-track faculty position as Assistant Professor of Chemistry.

A Ph.D., preferably in an area with application to Forensic Analytical Chemistry, is required for tenure track status. Teaching responsibilities include upper division forensic chemistry and graduate level forensic analytical chemistry courses, general chemistry, and other courses as appropriate to the incumbent's area of specialization. The successful applicant will also be expected to mentor undergraduate and graduate (M.S.) research students within our chemistry/biochemistry/pharmacy, and forensic chemistry programs.

Starting date: August, 2015. Review begins November 15, 2014 and continues until the position is filled. To apply, please see <http://goo.gl/exRAZA>. For more information about the Department of Chemistry at WIU please see <http://www.wiu.edu/chemistry/>.

WIU is a comprehensive public university. WIU has a non-discrimination policy that includes sex, race, color, sexual orientation, religion, age, marital status, national origin, disability, or veteran status. For assistance with the online application system call the Office of Equal Opportunity and Access at (309)298-1977. Questions regarding the search may be directed to: Dr. J. K. Huang at [J-Huang3@wiu.edu](mailto:J-Huang3@wiu.edu)

**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 2015-2017 Postdoctoral Fellow will be an integral part of the GCI Science's newly-formed 'Treatment Studies' research area, working also with colleagues in related research areas, such as Materials Characterization. (<http://www.getty.edu/conservation/about/science/index.html>).

In support of the GCI's mission to advance conservation practice in the visual arts, 'Treatment Studies' undertakes research and development that specifically addresses conservation methods and materials, focusing mainly on the treatment of movable objects and works of art: essentially, applied scientific research for the betterment of conservation practice. The 'applied' nature of the work means that the Fellow should collaborate closely with practicing conservators as well as with scientific researchers in other organizations.

The Postdoctoral Fellow is expected to engage with, and be involved in, both new and existing projects and research partnerships that are concerned with conservation methods and materials. The GCI anticipates that the primary focus of the Fellow's research activities will be polymeric materials for specific conservation operations, particularly coatings and/or consolidating adhesives. The Fellowship thus will be particularly suited to candidates having a strong polymer science background at the graduate level. In addition to working on existing or nascent research area 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 become 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 chemistry, polymer science, or another relevant physical science, experimental research experience and strong instrumental analysis skills. An aptitude for self-directed learning and for working across academic disciplines is desirable, as are good 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 2015 to August 2017. 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.

Completed application materials must be received in the Getty Foundation office on or before November 17, 2014. Application materials and full terms of the GCI postdoctoral program can be found on the Getty Foundation website:

[http://www.getty.edu/foundation/initiatives/residential/postdoctoral\\_fellowship\\_conservation\\_science.html](http://www.getty.edu/foundation/initiatives/residential/postdoctoral_fellowship_conservation_science.html)

**Sigma Aldrich**, a leading Life Science and High Technology company is looking for a motivated individual to lead all aspects of the publication of the technical periodical *Material Matters*®, the primary promotional vehicle of the Aldrich Materials Science Initiative. *Material Matters* delivers application based micro reviews from global thought leaders on innovative materials science research. *Material Matters* is distributed globally and is also translated into several languages. The position also provides support for other promotional material of a technical nature and acts as the coordinator for writing, advertising, and publication of technical data both in print and on-line. Additionally, the position gathers and prepares technical and application information for new and existing products. The objective is to create a high quality and highly-focused technical periodical and to support other promotional materials consistent with the priorities of the Materials Science product management team. This role also has the opportunity to contribute to the editorial direction of the *Materials Matters Journal*, and the creation and execution of product marketing strategies and the long-term growth of the Materials Science Initiative.

#### ESSENTIAL JOB FUNCTIONS

Project Manager for *Material Matters* quarterly technical periodical

- Plan, coordinate, and publish four annual issues in print, online, and for the iPad for *Material Matters*.
- Create and organize content, timelines, and communication with authors and publishers.
- Edit and proofread each issue in coordination with the materials science team to ensure the highest quality, accuracy, consistency and the integrity of the information within.
- Data enrichment/Web content/Marketing material
- Collect, compile, analyze, and deliver technical and application information for new and existing products in selected Materials Science focus areas for research and applied business units.
- Work with team to create and update technical and non-technical pieces and marketing materials in selected focus areas as required.
- Technical Product Stewardship
- Interact with Technical Services, Sales and Marketing to coordinate, and complete marketing efforts between business units and brands.

#### Requirements

- MS or Ph.D. degree in Materials Science, Materials Chemistry, Inorganic, Organic or Polymer Chemistry or BS in any of these areas with 5 years of editorial, scientific writing or marketing experience required.



- In-depth scientific understanding of materials science is required.
- Editorial, scientific writing or marketing experience is preferred.

For further information and to apply, visit [www.aldrich.com/matsci](http://www.aldrich.com/matsci) Or apply at <http://bit.ly/1uKhVbs>

**The Department of Chemistry at the University of Alberta** invites applications for three tenure-track faculty positions. The starting date is July 1, 2015. The rank for these positions is directed at the Assistant or Associate Professor level. The Department seeks applicants in the fields of: 1) Organic Chemistry with an emphasis on Medicinal or Green Chemistry 2) Environmental Chemistry and 3) Biomaterials, including tissue engineering, DNA related sensing and nanotechnologies, and Synthetic Biology. Preferential consideration will be given to outstanding individuals whose research areas are of consensual interest to the faculty and complement current expertise in the Department. The Department has vibrant research programs encompassing most areas of modern chemistry including materials and nanoscience, catalysis, polymer chemistry, spectroscopy, synthesis and medicinal chemistry, chemical biology, computational chemistry, and instrumentation and analysis ([www.chem.ualberta.ca](http://www.chem.ualberta.ca)). An outstanding research environment is offered with access to excellent support facilities.

The candidate must hold a Ph.D., will have demonstrated excellence in research and a strong ability to communicate. The successful candidate will show outstanding promise in research and a strong commitment to graduate and undergraduate teaching. They will establish their own funded research program, and supervise and teach graduate and undergraduate students.

Interested individuals should submit a curriculum vitae, a clear statement of which field they are applying in, a proposal that details innovative and original research, a statement of teaching philosophy, and arrange to have three confidential letters of reference sent on their behalf.

The application deadline is October 30, 2014.

#### How to Apply:

##### *Mail*

Professor D Jed Harrison, Chair  
Department of Chemistry  
E3-38 Gunning/Lemieux Chemistry Centre  
University of Alberta  
Edmonton, AB Canada T6G 2G2

##### *Email*

[chair@chem.ualberta.ca](mailto:chair@chem.ualberta.ca)

*All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered.*

*The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.*

**The University of North Carolina at Chapel Hill** As part of a continuing commitment to building a culturally diverse intellectual community and advancing scholars from underrepresented groups in higher education, The University of North Carolina at Chapel Hill Carolina Postdoctoral Program for Faculty Diversity (CPPFD) is pleased to offer postdoctoral research appointments for a period of two years. The purpose of CPPFD is to develop scholars from underrepresented groups for possible tenure track appointments at the University of North Carolina and other research universities. Postdoctoral scholars will be engaged full-time in research and may teach only one course per fiscal year. This program is funded by the State of North Carolina. The CPPFD is a nationally recognized and extremely competitive program. We typically receive more than 750 applications per year and typically fund 4-5 new postdoctoral researchers per year.

Applications for study in any discipline represented on the campus are welcome. Please specify your discipline of interest when applying.

#### Stipend

- \$42,000 per calendar year
- \$2,000 per year research fund for research expenses, including travel.

#### Eligibility

- Applicants must have completed their doctoral degree within the past five years and no later than July 1st of the current year.
- The primary criterion for selection is evidence of scholarship potentially competitive for tenure track appointments at the University of North Carolina and other research universities.
- AN IMPORTANT SECONDARY CRITERION IS THE SUPPORT OF PROSPECTIVE DEPARTMENTS.
- Preference will be given to U.S. citizens and permanent residents. The University of North Carolina at Chapel Hill strongly encourages applications from African American, Native American and Hispanic scholars.

#### Application materials

- Cover letter addressed to Vice Chancellor Barbara Entwisle
- Curriculum vitae
- A statement of research plans (1-3 pages)
- A personal statement on why you should be selected for this program (1–3 pages)
- Writing samples (e.g., publications and/or dissertation chapters) – Visual Artists should include a portfolio of their artwork in lieu of writing samples.\*
- Three references for letters of recommendation

*\*VA Candidate's Portfolio should include on a CD/DVD up to 16 images and/or 4 videos as well as a short description of each image/video. The CD/DVD should be mailed separately to:*

*Office of Postdoctoral Affairs*

*The University of North Carolina at Chapel Hill*

*301 Bynum Hall, CB#4100*

*Chapel Hill, NC 27599-4100*

The application deadline is November 15 at 11:59 EST.

#### Contact Information

For questions or additional information regarding the Carolina Postdoctoral Program for Faculty Diversity, please contact:

Jennifer Pruitt

Program Coordinator

[jennifer\\_pruitt@unc.edu](mailto:jennifer_pruitt@unc.edu)

Sibby Anderson-Thompkins

Director, Office of Postdoctoral Affairs

[opa@email.unc.edu](mailto:opa@email.unc.edu)

#### **Department of Pharmaceutical Sciences at The University of Maryland Baltimore School of Pharmacy**

has an FDA funded postdoctoral position available in the Michel laboratory. The Michel laboratory is part of a team that is initiating a clinical trial focused on evaluating iron speciation in the blood plasma of patients who have been treated with generic and brand-named sodium ferric gluconate products to treat anemia. The postdoctoral fellow will lead the development of high-throughput assays to measure iron speciation in blood plasma utilizing cutting edge inductively coupled plasma mass spectrometry (ICP-MS) approaches. A second aspect of the project will involve the development of physical methods to characterize the physiochemical properties of the sodium ferric gluconate nanoparticle products utilized in the clinical trial. The postdoctoral fellow will also have the opportunity to collaborate with faculty and researchers from the UMB Mass

Spectrometry Waters Center for Innovation to develop high throughput LC/MS assays to measure oxidative stress and toxicity in blood plasma.

The ideal candidate will have a strong background in bioinorganic chemistry and an interest in translational research in the area of metals in medicine. Interested candidates are asked to send a CV and have 2 letters of recommendation forwarded to Dr. Michel at [smichel@rx.umaryland.edu](mailto:smichel@rx.umaryland.edu). For more information on research in the Michel laboratory see: <http://faculty.rx.umaryland.edu/smichel/>

**Nanophotonics Lab at Emory University** is seeking postdoctoral researchers. Applicants must have a PhD in physics or a related field. Prior research experience in the field of spectroscopy/microscopy of nanomaterials, optics, plasmonics or nano-fabrication is a plus.

The candidate will have opportunity to work in a lively and stimulating scientific environment at the beautiful Emory campus. Successful candidates will be offered competitive stipend/salary commensurate with experience and accomplishments. For more information visit <http://bit.ly/1sK2dfm>.

Please send applications (including CV, list of publications, and two references) to prof. Hayk Harutyunyan at [hayk.harutyunyan@emory.edu](mailto:hayk.harutyunyan@emory.edu).

**The "Synthesis and Biological Recognition Stream" (SBRS) in the Freshman Research Initiative (FRI) at the University of Texas, at Austin** is uniquely designed to provide an organized platform for second-semester freshmen and first-semester sophomores to conduct original research at the exciting interface of chemistry and biology. Students are first taught routine and specialized laboratory and instrumental methods they will need to perform their research using a course manual that is complemented by online instructional videos and modules. Students learn to visualize molecular interactions between proteins and ligands using PyMOL. Small teams of students work together to design potential antagonists they believe will bind to a selected protein target from their analysis of crystallographic data of protein-ligand complexes. Once the small molecule target is identified, the students are trained to use Reaxys and SciFinder to search for reactions and precedent that will enable them to prepare the compound. After preparing the "rationally-designed" ligands, the students determine the thermodynamic binding parameters for its association with its target protein (*e.g.*, mouse major urinary protein, the Src and Grb2 SH2 domains, and HCV protease) using ITC. Interested students can learn the techniques of protein expression and purification, but these tasks are often performed by student "mentors", who have participated in the stream and help supervise new students in addition to performing their own independent research. Some ligands are selected for structural studies by X-ray crystallography, and students assist hanging drops in crystallization screens. Students are evaluated by formal written reports, a lab practicum, oral presentations, a research proposal, and a final research report. *The interdisciplinary curriculum is uniquely designed to provide undergraduates with an applied understanding of advanced laboratory techniques and computational tools in order to develop experimental, technical, writing, and presentation skills and knowledge that will be invaluable in preparing them to enter graduate or professional school or the workplace.*

#### ***More Information and How to Apply***

The Texas Institute for Discovery Education in Science in the College of Natural Sciences is seeking a Specialist to teach Research Experience courses and conduct research at the interface of organic chemistry and biology as part of its innovative science education program, the Freshman Research Initiative (FRI) and specifically as a leader of the **Synthesis and Biological Recognition Stream (SBRS)**. FRI merges the teaching and research missions of the university by engaging undergraduates in conducting research project(s) related to a faculty member's ongoing research. For more information about the FRI, please visit: <http://cns.utexas.edu/fri> and for more information on the SBRS, see <http://sbrs.cm.utexas.edu/>

Responsibilities include teaching research-based courses, managing a fast-paced undergraduate research group, and coordinating research- and teaching-related activities in the *area of organic synthesis with*

*a focus on applications in biological molecular recognition.* The position is renewable on an annual basis depending on job performance and class enrollments.

Applications will be reviewed and interviews conducted until position is filled. Start dates will be negotiated with the finalists, but preferred start date is between January 15 and April 1, 2015. Qualifications: A Ph.D. or equivalent is required in the field of chemistry, with doctoral or postdoctoral research in organic synthesis. The preferred applicant will also have experience with techniques in biochemistry/molecular biology, which may include testing of organic compounds in biological assays, protein expression, isothermal titration calorimetry, and/or protein crystallography. The preferred candidate will also have experience teaching or mentoring undergraduates.

Applicant Instructions: Please email a cover letter with the contact information for three references, a current CV or resume, and a statement of teaching experience and accomplishments. The official job posting can be found here:

[https://facultyjobs.utexas.edu/potential/view\\_job.cfm?jobID=2353](https://facultyjobs.utexas.edu/potential/view_job.cfm?jobID=2353)

All application materials should be submitted to:

Erin Dolan

Painter Hall 3.04

103 W. 24th Street, G2550

Austin, TX 78712 [edolan@austin.utexas.edu](mailto:edolan@austin.utexas.edu)

### **Optical Studies of Recombination in Thin Film Photovoltaics at University of Washington, Seattle**

We seek applications for a postdoctoral research fellow to lead systematic studies of charge generation and recombination losses in novel organic and hybrid photovoltaic materials using a combination of ultrafast transient absorption, modulation spectroscopy, and device measurements. Previous experimental experience with femtosecond transient absorption spectroscopy is highly desirable. A working knowledge of solar cell device physics (organic, hybrid, inorganic or otherwise) would be beneficial, but is not a prerequisite.

Applicants should have a strong record of research productivity, and will be expected mentor students and work with faculty with diverse backgrounds in physics, chemistry, and engineering. Interested applicants should email David Ginger directly with a CV, and arrange for 2 letters of reference to be sent separately ([ginger@chem.washington.edu](mailto:ginger@chem.washington.edu)).

**The Department of Chemistry at the University of Texas at El Paso (UTEP)** invites applications for a tenure-track assistant professor position in all aspects of Medicinal Chemistry. The anticipated appointment date is fall 2015 or earlier. The successful candidate is expected to establish an extramurally-funded research program; to teach and mentor undergraduate, master's, and doctoral students; and to be a member of the Border Biomedical Research Center (BBRC). The BBRC has multiple state-of-the-art laboratories and core facilities, including those focused on proteomics, metabolomics, genomics, cell imaging, high-throughput screening (HTS) analyses, and bioinformatics and biostatistics. Major resources at BBRC include: gas and liquid chromatography-mass spectrometry (GC-MS and LC-MS) systems, two high-content imaging (HCI) systems for HTS of libraries of small molecule inhibitors, a surface-plasmon resonance system, a new-generation Illumina DNA sequencing system, and electron and confocal microscopes. The BBRC also features newly constructed BSL3/ABSL3 facilities. The Department of Chemistry is housed in the newly completed Chemistry and Computer Science building which has facilities for NMR spectroscopy, mass spectrometry, EPR, x-ray crystallography, and cryoelectron microscopy. Candidates' research should have a strong potential for extramural funding and for the establishment of collaborations with other BBRC laboratories. Preference will be given to candidates whose research employs innovative approaches in areas including the design, generation, and analysis of bioactive compounds, and the manipulation of their pharmacokinetic and pharmacodynamic properties and their bioavailability.

**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. It is the safest large city in the United States. Shielded by mountains on three sides, El Paso experiences more than 300 days of sunshine annually, and residents enjoy outdoor activities year---round. The city of El Paso is adjacent to both the state of New Mexico and the country of Mexico, making it the nation's leading area for cultural diversity and border health research. Comprising 248 square miles, El Paso is the sixth largest city in Texas and 19th largest city in the United States. El Paso's active arts and culture community features the state's longest running symphony orchestra, a nationally recognized chamber music festival, art galleries, history museums, and a full schedule of seasonal festivals and events. UTEP adds to the arts scene with an award---winning dinner theater, music and dance productions, contemporary and student art galleries, and a natural history museum. For sports fans, the UTEP Miners offer exciting Division I college athletics at Sun Bowl Stadium, the Don Haskins Center and Kidd Field. Southwest University Park located in El Paso's lively downtown is home to the El Paso Chihuahuas, the San Diego Padres AAA baseball team.

**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:

Dr. Katja Michael  
Medicinal Chemistry Search Committee Chair  
Department of Chemistry  
University of Texas at El Paso  
500 West University Avenue  
El Paso, TX 79968  
Email: [kmichael@utep.edu](mailto:kmichael@utep.edu)

The University of Texas at El Paso is an Equal Opportunity/Affirmative Action Employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, genetic information, veteran status, or sexual orientation in employment or the provision of services.

**Huntsman Cancer Institute (HCI) in conjunction with the Department of Medicine, Division of Medical Oncology, and the Department of Medicinal Chemistry of the Skaggs Pharmacy Institute, at the University of Utah,** invite applications for a tenure-track faculty position, at the rank of assistant professor. We are searching for talented investigators with the potential to develop outstanding research programs in the area of medicinal chemistry directed toward cancer therapeutic discovery. In addition to their academic interests, the successful candidate is expected to develop programs that will result in new commercial activities.

Huntsman Cancer Institute is an NCI-designated cancer center and a member of the National Comprehensive Cancer Network. HCI has a strong history of academic achievement and a commitment to excellence in service, teaching, and research, including laboratory, clinical, and population sciences. Sunil Sharma, MD, FACP, serves as the Chief of the Division of Medical Oncology in the Department of Medicine, and as Senior Director of Clinical Research and Director of the Center for Investigational Therapeutics at Huntsman Cancer Institute.

This position will be part of HCI's Center for Investigational Therapeutics, which is a transdisciplinary program for development of novel cancer therapeutics. It is anticipated that the new hire will work closely with translational cancer researchers and have dual appointments in the Department of Medicinal Chemistry and the Division of Medical Oncology. For more information, visit [www.huntsmancancer.org](http://www.huntsmancancer.org), [www.utahinternalmedicine.org](http://www.utahinternalmedicine.org), and [www.pharmacy.utah.edu/medchem](http://www.pharmacy.utah.edu/medchem)

The position is also part of the Utah Science, Technology, and Research Initiative (USTAR), which was funded by the Utah Legislature to attract focused teams of outstanding researchers who have the potential to build major fundamental research programs that will lead to the commercialization of new technologies and/or build new industries for Utah. Information about the USTAR initiative and past hires can be found at [www.ustar.utah.edu](http://www.ustar.utah.edu).

Candidates should submit a cover letter, a complete curriculum vitae, and a statement of research plans. The names of at least three references should be included in the submitted documents. Review begins immediately and continues until the position is filled or the search is closed.

Huntsman Cancer Institute  
Attn: Recruitment Office, Room 5363  
2000 Circle of Hope, Salt Lake City, UT 84112-5550 Email: [hci.recruitment@hci.utah.edu](mailto:hci.recruitment@hci.utah.edu)

Or, to apply online, please visit the following link: <http://utah.peopleadmin.com/postings/33295>

**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 \$45,000 - \$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](mailto:rap@nas.edu).  
There are four annual review cycles.

Review Cycle: **August**; Opens June 1; Closes August 1  
Review Cycle: **November**; Opens September 1; Closes November 1  
Review Cycle: **February**; Opens December 1; Closes February 1  
Review Cycle: **May**; Opens March 1; Closes May 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](http://www.nationalacademies.org/rap).