

2013 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
November 4, 2013

Tuesday, November 5: *Faculty Seminar: Brian Hoffman*
Tech, K140
12:00-1:00 pm

Organic Seminar: Uttam Tambar
Ryan Hall 2003
4:00 - 5:00 pm

Wednesday, November 6: *Special Seminar: Keith Steelman*
Tech, K140
6:00 – 8:00 pm

Friday, November 8: *Inorganic Seminar: Paul Chirik*
Tech, K140
4:00 – 5:00 pm

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

BIP

Meets every Friday at 3:00pm in Tech K140

Arrivals

Lauren Buchanan joined the VanDuyne Group
Nema Hafezi joined the Stoddart Group
Idan Hod joined the Hupp Group
Veronika Hoeke joined the Hoffman Group
Hyojin Lee joined the Odom Group

Opportunities

National Institute of Standards and Technology We are seeking post-doctoral researchers to study electronic structure and ultrafast interfacial dynamics at organic heterojunctions. One focus is the use of time-resolved two-photon photoelectron spectroscopy (TR-2PPE) to follow exciton and charge dynamics at the donor-acceptor interfaces. In conjunction with this effort we also apply scanning tunneling microscopy and spectroscopy (STM, STS) to measure interfacial molecular structure, nanoscale phase separation, and local electronic structure. We are also interested in new methods to follow charge transfer and photovoltage at interfaces with nanosecond to picosecond resolution. Finally, we also have interests in the application and further development of THz measurement techniques. Experience with ultrafast laser systems, UHV techniques, photoelectron spectroscopy, and/or STM is desirable but not a requisite. We welcome inquiries from applicants with interests in any of these areas. Positions will be funded through the National Research Council postdoctoral program. *For further information contact:* Dr. Steven Robey Steven.robey@nist.gov or Dr. Edwin Heilweil Edwin.heilweil@nist.gov

The Department of Chemistry at The University of Toledo invites applications for a tenure-track faculty position. Applicants are immersed in the fields of bioanalytical chemistry and biochemistry are particularly sought, however researchers from any analytical or biochemical discipline are encouraged to apply. The appointment is expected to be at the Assistant Professor level, but a senior appointment may be considered

for faculty with strong records of both research accomplishments and funding. A Ph.D. degree in chemistry, biochemistry or a closely related field is required; postdoctoral experience is preferred. The successful candidate will begin their appointment August 2014, pending budgetary approval, and will participate in undergraduate and graduate (M.S. and Ph.D.) teaching and research in their area of expertise, and will also be expected to develop and maintain a vigorous, externally-funded research program.

The University of Toledo is a comprehensive state institution with an enrollment of approximately 21,000 students located on an attractive suburban campus. The University offers competitive salaries and an excellent start-up and benefits package. Further information about the department is available at (<http://www.utoledo.edu/nsm/chemistry/>). Applicants must submit a cover letter, their curriculum vitae, a summary of research plans, and a statement of teaching philosophy as a single pdf file submitted to <https://jobs.utoledo.edu> and should also arrange to have three recommendation letters sent to: utchem@utoledo.edu. Review of applicants will begin on December 1st and continue until this position is filled. The Department encourages applications from minorities, women and persons with disabilities. The University of Toledo is an Affirmative Action/Equal Opportunity Employer *MIFIDN*.

The University of Notre Dame announces six new faculty positions in Analytical Sciences and Engineering. The positions range from junior level through tenured senior faculty to endowed chair appointments. Successful candidates may choose to establish their programs in Notre Dame's Department of Chemistry and Biochemistry or the Department of Chemical and Biomolecular Engineering, or both. Since 2006, Notre Dame has initiated the fastest growing analytical sciences program in the US, and now seeks to build upon that momentum by leveraging the initial investment in excellence with a disciplined hiring program designed to attract world-leading scholars in the chemical measurement sciences. These positions will impact the analytical sciences by taking advantage of parallel efforts in the targeted departments, the university, the region, and the state of Indiana - including: (a) strongly overlapping hiring initiatives in Notre Dame's Colleges of Science and Engineering, (b) investments in molecular diagnostics through the Advanced Diagnostics & Therapeutics strategic research investments, (c) initiatives to establish degree programs in analytical sciences, and (d) state-wide education and research initiatives developed in concert with colleagues at Indiana University and Purdue University. The positions include salary, start-up funding and laboratory space commensurate with level. Junior candidates should include a cover letter, curriculum vitae, detailed research plan, and statement of teaching interests directed to Paul W. Bohn/Norman J. Dovichi, Chair, ASEND Search Committee (<https://academicjobsonline.org/ajo/jobs/3091>). Candidates must also arrange to have at least three letters of recommendation sent to the search committee via the application website, although senior applicants can apply in confidence. Review of applications will commence immediately and will continue until suitable candidates are identified. The University of Notre Dame is an equal opportunity employer with a strong institutional commitment to diversity and endeavors to foster a vibrant learning community animated by the Catholic intellectual tradition. <http://chemistry.nd.edu/>

The University of Notre Dame As part of a campus-wide initiative associated with the Harper Cancer Research Institute (<http://HarperCancer.nd.edu/>), multiple open-rank tenure-track faculty positions are available at the University of Notre Dame in the broad area of cancer research. Individuals engaged in basic and translational cancer research using organotypic and/or animal models of cancer are especially encouraged to apply. A demonstrated record of collaborative and interdisciplinary research is strongly preferred. Successful candidates will be appointed in either the Department of Biological Sciences or the Department of Chemistry and Biochemistry and will be expected to establish a vigorous extramurally supported research program in cancer biology/biochemistry, participate in collaborations within and across disciplines, and contribute to excellence in undergraduate and graduate education. Senior applicants should have a record of national and international distinction. Key research facilities include the AAALAC-accredited Freimann Animal Facility, Notre Dame Integrated Imaging Facility, Center for Zebrafish Research, Eck Institute for Global Health, Keck Center for Transgene Research, Center for Rare and Neglected Diseases, Lizzadro Magnetic Resonance Research Center, Center for Research Computing, and core facilities for proteomics, genomics and bioinformatics. Additional information can be found at <http://research.nd.edu/core-facilities/>. The Harper Cancer Research Institute represents a collaboration between the University of Notre Dame and Indiana University School of Medicine-South Bend (<http://medicine.iu.edu/southbend>) and is housed in 55,000 square feet of new research space. The University is also engaged in the Indiana Clinical and Translational Sciences Institute (I-CTSI) partnership with Indiana University School of Medicine (Indianapolis) and Purdue University. The positions include competitive

salary, start-up funding and laboratory space. Applicants should upload a cover letter, curriculum vitae, detailed research plan, and statement of teaching interests directed to M. Sharon Stack, Director of the Harper Cancer Research Institute (<https://academicjobsonline.org/ajo/jobs/2962>). Candidates must also arrange to have at least three letters of recommendation sent directly to the search committee via the application website, although senior applicants can apply in confidence. Review of applications will commence immediately and will continue until suitable candidates are identified. The University of Notre Dame is an equal opportunity employer with a strong institutional and academic commitment to diversity and endeavors to foster a vibrant learning community animated by the Catholic intellectual tradition. <http://chemistry.nd.edu/>

The Department of Chemistry at Hendrix College (www.hendrix.edu/chemistry) is seeking to fill a tenure-track position to commence in August 2014. A Ph.D. is required and postdoctoral research experience is strongly preferred. Candidates must be committed to excellence in undergraduate teaching and sustainable research.

Hendrix has a strong dedication to interdisciplinary teaching through the common freshman course, The Engaged Citizen, and experiential learning, including research, as evidenced by the Odyssey Program (www.hendrix.edu/odyssey). The typical annual teaching load is 4 lectures and 4 laboratories. The College demonstrates its commitment to research by assigning a portion of the standard teaching load for chemistry faculty to research with undergraduates. The successful candidate will receive 50% time reassignment for research during the first year in this position and 25% thereafter with continued research success. The department is housed in a modern facility dedicated in 2001 that is a combination of recently constructed and completely renovated buildings. Ample laboratory space is available for both teaching and research, and competitive start-up funding will be provided.

Teaching responsibilities would include introductory chemistry courses and a discipline-specific upper-level course. Candidates able to develop interdisciplinary offerings in materials or environmental chemistry would be of particular interest. The specific research area is open though the typical anticipated disciplines are inorganic, analytical or physical.

Hendrix is a distinguished liberal arts college of just over 1400 students with an endowment of \$181 million. The College, related to the United Methodist Church, shelters a chapter of Phi Beta Kappa. In spring of 2013, the College was named the nation's #2 "up-and-coming liberal arts college" by US News and World Report. Along with curricular innovations such as the Odyssey Program and the Engaged Citizen, Hendrix has recently completed major state-of-the-art athletic facilities (2008 and 2013) and a new Student Life and Technology Center (2010). Additionally, the new 90 acre "Academic Village" neighborhood is adjacent to the campus with popular restaurants and student apartments along with the campus bookstore and single-family houses with a creek walking trail.

The wooded campus is an exciting and vibrant place for work and recreation. It is located in Conway, Arkansas, a city of over 60,000 located 30 miles north of Little Rock (pop. ~195,000) in the foothills of the Ozark Mountains. Conway also is the home of the University of Central Arkansas (~11,000 students) and Central Baptist College (~500 students). More about Conway and Arkansas can be gleaned from the local and statewide newspapers, www.thecabin.net and www.ardemgaz.com, respectively.

The Department of Chemistry consists of eight faculty members supported by a full time laboratory manager and a full-time position devoted to instrumentation maintenance, laboratory development, and chemical hygiene duties. Chemistry faculty members serve the majors in Chemistry, as well as Biochemistry/Molecular Biology, Chemical Physics, and Environmental Studies. Virtually all of our majors are active in research with faculty and present their research at National ACS Meetings. For example, last spring, 25 students presented their research at the 2013 Spring National ACS meeting in New Orleans accompanied by 6 faculty and staff.

The Department has benefited from a major Department Development Award from Research Corporation, as well as by numerous research and/or instrumentation grants from NSF, NIH, ACS-PRF, Research Corporation, the Camille and Henry Dreyfus Foundation, the Food Allergy & Anaphylaxis Network, and the Sturgis Foundation. A pioneering green chemistry laboratory program has been implemented in the General and

Organic Chemistry labs (www.hendrix.edu/greenchemistry). The junior year of the major is distinguished by an integrated, year-long Advanced Techniques in Experimental Chemistry laboratory.

Department of Chemistry and Biochemistry at The Florida State University is continuing its *major interdisciplinary initiative in the areas of Energy and Materials*. During the 2013-14 academic year the University will be recruiting as many as nine tenure-track/tenured faculty members to supplement the **three faculty hired** last year in these areas. This search is open with respect to rank and academic department. Successful candidates are expected to have a synergistic impact on existing research programs in the University's departments and interdisciplinary centers as well as develop new areas. Sustained pursuit and growth of collaborative, externally-funded research programs is an explicit goal.

We invite applications from researchers active in the broadly-defined area of materials science and materials engineering with an emphasis on, but not restricted to, materials for energy production, conversion, storage and utilization. Target research areas in this search encompass theory, computation, synthesis including molecular, macromolecular, thin films and crystals, biomaterials, fundamental characterization, materials measurement science, device construction and testing, and proof of concept and prototype.

Successful candidates will be offered highly competitive salaries and start-up packages, state-of-the-art research space and access to world-class instrumentation, computing and facilities in academic and interdisciplinary units.

The Florida State University is classified as a very high research activity, doctorate-granting institution with a student population approaching 42,000. In recent years, the University has made considerable investments in research infrastructure in the sciences and engineering disciplines. The University is located in Tallahassee, the Capital of Florida, where residents have access to a broad range of cultural amenities afforded by the presence of three institutions of higher learning. The region is close to the Apalachicola National Forest and boasts an abundance of springs, lakes and rivers as well as pristine beaches on the Gulf of Mexico.

Applicants are asked to provide *a single document* in pdf format containing a letter of application including the names and contact information of three professional references, curriculum vitae, and a two page narrative describing their research interests that should include a clear statement as to how the candidate would complement this inter-college effort at Florida State University. Applications must be sent electronically to materials2013.search@fsu.edu. Review of applications will begin on November 1, 2013.

Questions about this search should be directed to Associate VP for Research W. Ross Ellington (wellington@fsu.edu) or Associate VP for Academic Affairs Bruce Locke (locke@fsu.edu). *The Florida State University is committed to the diversity of its faculty, staff, and students, and to sustaining a work and learning environment that is inclusive. Women, minorities, and people with disabilities are encouraged to apply. FSU is an Equal Opportunity/Access/Affirmative Action Employer.*

Department of Chemistry at The University of Akron is accepting applications for Department Chair and Professor. To apply for this position, you must complete the on-line application and attach letter of application (include your administrative philosophy) and current CV to your profile. In addition, arrange to have three confidential letters of reference to be sent via e-mail to: dspearch@uakron.edu

Go to "My Career Tools" on the Careers home page and upload the required documents under the link "Cover Letters and Attachments".

Applicants should fully describe their qualifications and experience with reference to the minimum and preferred qualifications. This is the information on which the initial review of materials will be based. A resume may be submitted but will not be accepted in place of any information requested on the application.

Responsibilities: Seek a dynamic, innovative and highly motivated individual to serve as Chair in the Department of Chemistry; work with faculty in the department of Chemistry to determine and implement policies/practices/activities that foster the growth of Chemistry programs (undergraduate as well as graduate); work with the Dean (and other Leadership Team members) in setting and executing Department/College Goals;

work with faculty from multiple disciplines as well as students and administrators to enhance the teaching and research excellence of the Chemistry department; actively engage in collaborate, multidisciplinary and interdisciplinary (funded) research projects involving collaborators at The University of Akron.

Required Qualifications: Ph.D. in one of the Chemical Sciences. Academic credentials appropriate for appointment at the rank of full professor in Chemistry at The University of Akron. A proven track record in providing leadership in an academic and/or research setting. Commitment to mentoring, dedication to excellence in teaching, successful track record of federal, state and/or industry funding. Excellent interpersonal and communication skills. **Preferred Qualifications:** Demonstrated excellence in establishing interactions with industry and other extramural research institutions.

Review of applications will begin November 25, 2013 and continue until the position is filled. The successful candidate will begin either Summer or Fall semester 2014.

The University of Akron is committed to providing a safe environment for all students and employees. The university endeavors to protect the health, welfare and safety of all students, employees and visitors on our campus. As such, the university will conduct a pre-employment background check for all applicants selected for employment.

Here you will find excellence in the breadth and quality of our 302 academic degree programs, for the more than 27,000 students representing 48 U.S. states and 78 foreign countries. They're a culturally diverse group and they come from a broad economic spectrum. Here you will find a metropolitan setting that places you in the heart of a dynamic, regional economy, and in sync with the pulse of business, government and the community.

Most important, here you will discover energy, in the high-tech classrooms of our new academic buildings, in our new Student Union and Student Recreation and Wellness Center, and among the 200 student organizations on campus. Excellence, opportunity and energy. You will find all three at The University of Akron.

The University of Akron is committed to a policy of equal employment opportunity and to the principles of affirmative action in accordance with state and federal laws

The Department of Chemistry at The University of Illinois Urbana-Champaign We are searching for outstanding candidates for an appointment as an ASSISTANT PROFESSOR in the general areas of **inorganic chemistry** and **materials chemistry** for the 2014-2015 academic year. Our primary interest is that the candidate be bright, imaginative, and dedicated to both research and teaching. The young colleague would join a faculty with a long tradition of scholarly excellence supported by outstanding technical facilities within the School of Chemical Sciences. Furthermore, colleagues interact strongly with several campus-wide research centers, including the Beckman Institute, Seitz Materials Research Laboratory, and the Institute for Genomic Biology. Graduate training is a hallmark of our program, this year we will grant >70 PhDs.

Applications can be made at <http://go.illinois.edu/CHEMfaculty>. The University of Illinois is an Affirmative Action-Equal Opportunity Employer.

Applications should be submitted promptly, preferably by 26 October 2013, to ensure full consideration. If you or an applicant would like more information, contact me at (217) 333-2236 or rauchfuz@illinois.edu.

Department of Chemistry and Biochemistry at California State University, Long Beach is accepting applications for an Assistant/Associate Professor of Biochemistry beginning August 18, 2014 (Fall 2014 semester) Salary commensurate with qualifications and experience.

MINIMUM QUALIFICATIONS: Ph.D. in Biochemistry or closely related discipline; strong record of research productivity; demonstrated potential for developing and sustaining an independent externally funded research program involving undergraduate and graduate (MS) students leading to peer-reviewed publications; potential for effective teaching in Biochemistry; commitment to and/or expertise in educating a diverse student population. Candidates in all areas of Biochemistry will be considered.

DESIRED/PREFERRED QUALIFICATIONS: Post-doctoral research experience; preference will be given to candidates who can complement research interests of existing faculty and/or utilize existing instrumentation.

DUTIES: Teach undergraduate lecture and laboratory courses in Biochemistry, and graduate level courses in the area of specialty; supervise undergraduate and graduate student research; develop and sustain an independent and externally funded research program involving undergraduate and graduate students leading to publications (research start-up funds are available); participate in activities serving the department, college, university, and community.

The Department of Chemistry and Biochemistry at California State University, Long Beach is committed to building a more diverse faculty, staff, and student body as it responds to the changing population and educational needs of California and the nation. We seek applicants and nominations from those who have experience teaching, mentoring, and developing research in ways that effectively address individuals from historically underrepresented backgrounds. California State University, Long Beach is an affirmative action/equal opportunity employer.

REQUIRED DOCUMENTATION: Please submit the following: letter of application addressing the minimum and desired/preferred qualifications; curriculum vitae with current email address; research proposal involving lab, major instrumentation and start-up needs; statement of teaching philosophy; statement of ability to work in an ethnically and culturally diverse campus; and a copy of transcript from the institution awarding the highest degree. Three current confidential letters of recommendation must be independently provided by references.

Finalists will also be required to submit a signed SC-1 form and an official transcript.

Electronic files from applicants and reference letters should be sent to chemsearch3@csulb.edu

The Department of Chemistry at the University of Connecticut Applications being accepted for two Assistant/Associate/Full Professor nine-month, tenure-track appointments starting in August, 2014. Positions will be in the Green Emulsions, Micelles and Surfactants (GEMS) Center, a new collaborative Center in the Department of Chemistry (gems.uconn.edu). Applicants are sought with experience in any aspect of research on surfactant-based nanoparticles, aggregates, or films. Research areas will be considered in the broadest sense with the aim of recruiting individuals best suited to contributing to GEMS.

Minimum Qualifications: Applicants must have a Ph.D. (or equivalent) in Chemistry or a closely related field. Postdoctoral experience is preferred. The ideal candidate will have an outstanding record of research accomplishments and strong oral and written communication skills.

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. Salary and rank will be determined based on qualifications.

To apply, please visit Academic Jobs Online at <https://academicjobsonline.org> 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 three reference writers to submit letters of reference on your behalf. Screening of applications will proceed immediately. Please include the search number 2014172 with all correspondence.

The University of Connecticut is an EEO/AA employer. Qualified applicants who can advance the diversity of our research and teaching mission are strongly encouraged to apply.

The Solar Fuels Institute invites applications for a Program Manager at the postdoctoral fellow level beginning February 2014. Successful candidates will have specialized in the solar fuels (artificial photosynthesis) field with demonstrated experience managing complex projects, collaborating across multiple labs, and communicating scientific discoveries to all audiences.

Established in 2011 and currently based at Northwestern University, SOFI is a global consortium of universities, government labs, and industry united around the goal of developing and commercializing a liquid solar fuel. SOFI aspires to transform how academic labs interface with the modern world by using Web 2.0 tools for

collaboration and knowledge sharing/dissemination, and by seeding multidisciplinary research with early industry involvement.

The Program Manager will execute and manage multiple collaborative research projects between SOFI labs and strengthen his/her entrepreneurial acumen. One of SOFI's goals is to foster the smooth progression of fundamental research into translational R&D, and the successful candidate would play an integral role in uniting the compartmentalized fields in solar fuels and communicating the discoveries in a proprietary Knowledge Map.

This position will provide a competitive stipend and benefits package. The initial appointment is for one year, renewable for a second year. Working remotely is a possibility, and some business travel to partner sites/conferences is expected.

Applicants should submit a letter electronically that outlines their motivation, a current CV, representative reprints, a non-technical writing sample (describing science to a general audience is acceptable), and three letters of reference (at least one addressing communication/project management effectiveness). Applications and questions regarding the position or application process should be directed to search@solar-fuels.org. Review of materials will begin on November 15, 2013, and applicants are strongly encouraged to submit their materials before that date

Minorities and women are encouraged to apply. Northwestern University is an Equal Opportunity, Affirmative Action employer. Hiring is contingent upon eligibility to work in the United States.

The Department of Chemistry and Biochemistry at Arizona State University (ASU) seeks applicants for a tenure-track faculty position at the assistant professor level with experience in one of five key areas: biomimetic design, biomimetic synthesis, biomimetic assembly, biomimetic programming, or biomimetic materials and systems engineering, to begin Fall 2014. The successful candidate will become part of an interdisciplinary team that aims to create intelligent materials and processes by design. Biomimetic designers will computationally design and model information-bearing molecular building blocks and predict how they will interact to create functional macromolecules. Researchers in the area of biomimetic synthesis will focus on generating the information-bearing molecular building blocks. The assembly team will develop reliable platforms to assemble the building blocks in super-structures with the desired properties. Programmers will propel the developed molecular assemblies to the next level of complexity. Finally, biomimetic materials and systems engineers will integrate the newly developed materials with man-made systems, examining interfaces to achieve optimal functionality. The successful candidate will be expected to develop a vigorous externally-funded research program at ASU with significant national and international recognition; teach effectively at the undergraduate and graduate levels; participate in professional and university service; and collaborate with the Center for Molecular Design and Biomimicry at the Biodesign Institute at ASU.

ASU is in the Phoenix metropolitan area in Tempe, Arizona and is one of the largest universities in the U.S. The Academic Rankings of World Universities has included ASU in the top-100 list of research universities. Thomson Reuters Science Watch ranks ASU's Department of Chemistry and Biochemistry 6th in impact worldwide, based on citation impact.

Minimum Qualifications:

- Doctorate in Chemistry, Biochemistry, Biology, Bioengineering, or a related field
- Demonstrated potential to establish a vigorous, externally-funded research program
- An outstanding record of research accomplishments
- A strong commitment to excellence in teaching

Desired Qualifications:

- Postdoctoral experience
- A strong commitment to working in an interdisciplinary environment
- A strong commitment to diversity

To apply, please submit as a single PDF document:

- (1) a cover letter which includes the names and email addresses of three references,
- (2) a curriculum vitae with a list of publications,

- (3) a succinct outline of future research plans, and
- (4) a statement of teaching philosophy and interests.

PDF application materials should be submitted via the employment portal found at

<http://chemistry.asu.edu/news/EmployOpp.asp>. The applicant should arrange for the three references identified in the cover letter to upload letters of recommendation to the employment portal listed above.

Applications will be reviewed beginning November 18, 2013 with review of applications continuing weekly until the search is closed. A background check is required for employment. Arizona State University is an equal opportunity/affirmative action employer and is committed to excellence through diversity. Women and minorities are encouraged to apply. <http://www.asu.edu/titleIX/>

The Department of Chemistry and Biochemistry at Loyola University Chicago invites applications for a tenure track position at the Assistant Professor level in inorganic chemistry. Applicants from all areas of inorganic chemistry will be considered. A Ph.D. degree and postdoctoral experience in chemistry or in a closely related field are required. The successful candidate will be expected to maintain an internationally competitive, externally funded research program and participate in undergraduate- and graduate-level teaching. The Department offers PhD, MS, and ACS approved BS degrees. For more details about the department, visit <http://www.luc.edu/chemistry>. Candidates should complete an online application at www.careers.luc.edu, with a cover letter, a *Curriculum Vitae*, and a detailed description of research and teaching interests. Applicants should provide the names and email addresses of three individuals prepared to speak to their professional qualifications for this position. Review of applications will begin on November 15, 2013 and applications will be accepted until the position is filled. Underrepresented minorities and women are especially encouraged to apply. *Loyola University Chicago is An Equal Opportunity/Affirmative Action Employer.*

The Department of Chemistry at The University of Pennsylvania invites applications for a tenure-track assistant professorship in the chemical sciences. This appointment will be the first in a cluster of three hires across the natural sciences focused on energy science.

The successful candidate will mount an innovative program of fundamental scientific research geared toward solving societal energy challenges. The successful candidate will also forge collaborative links with Penn scientists and engineers involved in energy research and participate actively in the future recruitments as the cluster hire initiative progresses. It is anticipated that some of the candidate's teaching will be of broad interest to students beyond chemistry in another of the natural sciences (Biology, Physics, and/or Earth and Environmental Science). The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and is strongly committed to establishing a diverse faculty:

<http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>

Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/28>.

Required application materials include: curriculum vitae including a list of publications, and a description of proposed research. Applicants should also submit the names and contact information of three individuals who will provide letters of recommendation. Review of applications will begin on October 14, 2013 and will continue until the position is filled.

The Rowland Institute at Harvard/Rowland Junior Fellows Program is seeking applications for Junior Fellowships for the 2014 academic year. We seek the best young experimentalists in all fields of science and engineering. The Rowland Junior Fellowship provides an opportunity to work in the rich intellectual environment at Harvard and the surrounding area, while establishing an independent program.

Dr. Edwin Land founded the Rowland Institute in order to foster high-risk, creative research. In 2002, the Rowland Institute became part of Harvard with the mission of advancing the careers of experimental scientists and engineers at an early career stage by providing them with the opportunity to establish an independent research program. In the tradition of Dr. Land, we are particularly interested in young scholars with the potential to establish a ground-breaking research program in their chosen field.

The Rowland Junior Fellowships are restricted to experimentalists at an early career stage (not more than three years beyond the receipt of the doctorate). Fellowship awardees will receive funding for salary and research expenses, including support for a postdoctoral researcher, research operating costs, and equipment. The Rowland Institute also provides technical support from permanent staff. All Fellows are also allocated their own laboratory space.

The term of the fellowship is for up to five years, with terms beginning between July 1 and September 30. The stipend for Rowland Junior Fellows will be upwards from \$65,000 per year, depending on the candidate's experience. Fellows must have completed their doctoral degrees prior to starting their term at the Rowland Institute at Harvard.

Applicants should submit a 1-page research proposal, a 2-page curriculum vitae (CV) and arrange for three letters of recommendation to be sent. The proposal and CV should be sent via US mail; letters of recommendation may be either mailed or sent electronically to rjf@rowland.harvard.edu. *The deadline for the application is Nov. 15, 2013.* No applications postmarked after this date will be accepted.

Dr. Michael M. Burns
Rowland Junior Fellows Program
Rowland Institute at Harvard
100 Edwin H. Land Boulevard
Cambridge, MA 02142 USA

Questions on the program should be directed to rjf@rowland.harvard.edu. Further information about the Rowland Institute can be found at <http://www.rowland.harvard.edu>. Harvard University is an Affirmative Action/Equal Opportunity employer.

The Department of Chemistry and Biochemistry at Florida State University seeks to fill a tenure-track faculty position at the Assistant Professor level beginning August 5, 2014. The Department is particularly interested in individuals with research interests in organic synthesis and/or chemical biology. Appointees will be expected to develop a vigorous, externally supported research program and to teach both undergraduate and graduate courses. Successful candidates will have a Ph.D. and postdoctoral training in a relevant field. The department will begin to evaluate application materials November 1st, 2013. The search process will continue until the position is filled.

Please **apply online** with curriculum vitae, statements of teaching and research philosophy, and the names of five references.

Questions can be e-mailed to the Search Committee at organicsearch@chem.fsu.edu.

The Florida State University is a Public Records Agency and an Equal Opportunity/Access/Affirmative Action employer, committed to diversity in hiring.

The Department of Chemistry at the University of Edinburgh is seeking applications for a Postdoctoral Research Fellowship in Materials Synthesis and Preparation. We are seeking to recruit a motivated and enthusiastic post-doctoral research fellow to synthesise and grow non-molecular solids, principally transition metal oxides. This work forms part of a project to investigate the formation, self-organisation, disorder and dynamics of orbital molecules (clusters of charge and orbitally ordered cations) in transition metal oxides, and the associated physical properties. The successful candidate will hold a PhD in chemistry or a related discipline, and have experience in synthesising transition metal oxides or similar materials.

Fixed Term: up to 60 months during the period 1 February 2014 to 31 January 2019

This project is supported by the ERC Advanced Grant 'Orbital molecules' - self-organised states for orbitronics. This will investigate the formation, self-organisation, disorder and dynamics of orbital molecules (clusters of charge and orbitally ordered cations) in transition metal oxides, and the associated physical properties. Primary activities for this position will include X-ray and neutron scattering studies of crystallographic and local structure. In addition you will be expected to interact regularly with other members of the project team and colleagues in the research group and in the Centre for Science at Extreme Conditions and the School of Chemistry, and external collaborators. You will also provide support to junior group members. For background on orbital molecules see Phys. Rev. B 85, 125119 (2012) and Nature 481, 173 (2012).

All applicants should apply via our [Vacancy Website](#). The application process is quick and easy to follow, and you will receive email confirmation of safe receipt of your application. The online system allows you to submit a CV and other attachments.

We anticipate interviews will be held within three weeks of the closing date. If you have not been invited for interview by this date, your application has not been successful. The closing date is 5pm GMT on 13 November 2013.

The Department of Chemistry at the University of Edinburgh is seeking applications for Postdoctoral Research Fellowship in Structural Analysis. We are seeking to recruit a motivated and enthusiastic post-doctoral research fellow to undertake structural analysis of non-molecular solids, principally transition metal oxides. Both crystallographic and local structure methods will be used. This work forms part of a project to investigate the formation, self-organisation, disorder and dynamics of orbital molecules (clusters of charge and orbitally ordered cations) in transition metal oxides, and the associated physical properties. The successful candidate will hold a PhD in chemistry, physics, or a related discipline, and have experience in structural studies of transition metal oxides or similar materials.

Fixed Term: up to 60 months during the period 1 February 2014 to 31 January 2019

This project is supported by the ERC Advanced Grant 'Orbital molecules' - self-organised states for orbitronics. This will investigate the formation, self-organisation, disorder and dynamics of orbital molecules (clusters of charge and orbitally ordered cations) in transition metal oxides, and the associated physical properties. Primary activities for this position will include X-ray and neutron scattering studies of crystallographic and local structure. In addition you will be expected to interact regularly with other members of the project team and colleagues in the research group and in the Centre for Science at Extreme Conditions and the School of Chemistry, and external collaborators. You will also provide support to junior group members. For background on orbital molecules see Phys. Rev. B 85, 125119 (2012) and Nature 481, 173 (2012).

All applicants should apply via our [Vacancy Website](#). The application process is quick and easy to follow, and you will receive email confirmation of safe receipt of your application. The online system allows you to submit a CV and other attachments.

We anticipate interviews will be held within three weeks of the closing date. If you have not been invited for interview by this date, your application has not been successful. The closing date is 5pm GMT on 13 November 2013.

AbbVie's Organic Chemistry Group in Process Research & Development We currently have two openings for associate chemists in AbbVie's Organic Chemistry Group in Process Research & Development. We are looking for self-motivated scientists with strong synthetic chemistry skills. A Masters of Science degree in Chemistry is preferred and the candidate must have a solid fundamental knowledge of organic chemistry, keen problem solving skills and laboratory research experience with compound preparation, purification, spectral analysis and interpretation. The successful candidate must work well in a team environment under mentorship of an experienced supervisor discovering, developing and executing chemical processes to prepare clinical drug candidates.

If you know someone who should be considered for one of these positions, please encourage him/her to apply by visiting our Careers web page at www.abbvie.com and applying through the links [130000043O](#) and/or [130000043X](#). Feel free to pass the message around your department. Feel free to pass the message around your department.

AbbVie (NYSE:ABBV) is a global, research-based biopharmaceutical company formed in 2013 following separation from Abbott. AbbVie combines the focus and passion of a leading-edge biotech with the expertise and capabilities of a long-established pharmaceutical leader to develop and market advanced therapies that address some of the world's most complex and serious diseases. In 2013, AbbVie will employ approximately 21,000 people worldwide and markets medicines in more than 170 countries.

Sigma-Aldrich in Milwaukee, Wisconsin is seeking a Product Manager-Materials Science. Manage Alternative Energy and Micro/Nanoelectronics product lines within the Aldrich Materials Science initiative. These product lines comprise a broad range of application-specific materials and tools for synthesis as well as device fabrication, addressing both research and commercial markets. The Alternative Energy product line consists of materials for energy applications including lithium ion batteries, fuel cells, hydrogen storage,

lighting, thermoelectrics etc. The Micro/Nanoelectronics product line includes precursors for thin film deposition and synthesis of nanomaterials along with electronic and semiconductor grade materials for electronics and semiconductor markets. The successful candidate will manage the product portfolio, perform market analysis, promote awareness of the product lines, maintain the products and optimize pricing in order to meet revenue objectives for the product lines and for the Materials Science Initiative. Additionally, the candidate is expected to support team efforts as assigned in order to meet department, business unit, and company objectives.

Education: PhD in Materials Chemistry, Materials Science, Engineering, or Chemistry; or B.S. in Chemistry with M.B.A. and 5 (five) years of product management and business development experience directly related to alternative energy and micro/nanoelectronics product line(s). Postdoctoral experience preferred.

For further job description information and/or to apply please visit the company's website at <http://bit.ly/18NmXue>. Sigma Aldrich is an Equal Opportunity employer

The Department of Chemistry at The University of Alabama seeks an outstanding individual with expertise in materials chemistry to fill a tenure track position at the Assistant Professor rank beginning August 16, 2014. The successful candidate is expected to have a Ph.D. and post-doctoral training in chemistry or closely related discipline and to develop a vigorous, externally funded research program. The ability to teach both undergraduate and graduate Chemistry courses is required. The area of research is open, but areas complementary to existing interdisciplinary programs at The University in alternative energy or sustainability are of particular interest. Detailed information about the Department and its state-of-the-art facilities can be found at chemistry.ua.edu. Applicants should apply online at facultyjobs.ua.edu (position # 0808572) and provide a curriculum vitae with publication list, research plans, and teaching philosophy statement and arrange for three letters of reference to be sent to the Chair, Materials Chemistry Search Committee, Department of Chemistry, Box 870336, The University of Alabama, Tuscaloosa, AL 35487 or sent electronically to chemistry@as.ua.edu. Review of applications will begin November 1 and continue until the position is filled. Applications from women and members of traditionally under-represented groups in chemistry are especially encouraged. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

The Department of Chemistry at Purdue University currently has an opening for a tenure-track faculty position at the Assistant Professor level in Organic Materials. We are seeking outstanding applicants in all areas of Organic Materials research, including research related to energy and catalysis.

Please share our announcement with any postdoctoral research associates or former students who are actively seeking opportunities to develop their independent research programs in these areas. A description of the position was posted Sept 14, 2013 at *C&E News* website, and can be found at our department website.

<http://www.chem.purdue.edu/News/facultypositions.asp>

Application materials should be sent to

<https://academicjobsonline.org/ajo/jobs/2987>

Applications will be reviewed beginning November 1, 2013, and will remain in consideration until the position is filled. Thank you for your assistance.

The Department of Chemical Engineering at Stanford University is seeking applicants for a tenure-track faculty position at the junior level (Assistant or untenured Associate Professor). Applicants are expected to have earned a Ph.D. degree in chemical engineering or related disciplines. We will consider applicants knowledgeable in the general area of chemical engineering science. There are several broad areas of interest, including hydrocarbon chemistry, surface reactivity and catalysis, fuel cells, environmental or atmospheric studies, molecular transport processes and mechanics, soft materials physics and chemistry, computation and simulation, biochemical and biomolecular engineering, and nanomaterials processing. In general, we give higher priority to the overall originality and promise of the candidate's work rather than to the sub-area of specialization. Researchers with interests in the applied life sciences, energy sciences, and environmental sciences are particularly encouraged to apply. The successful candidate will be expected to teach at the graduate and undergraduate level, to develop advanced graduate courses in a research specialty, as well as to develop a world-class research program with an emphasis on the fundamental physical, chemical, or biological aspects of chemical engineering science. Applicants should be seeking a stimulating interdisciplinary environment in which to pursue teaching and research. We anticipate that the faculty members will contribute to and develop

leadership roles and interactions among faculty not only in Chemical Engineering, but also Electrical, Mechanical, Civil and Environmental, and Material Science and Engineering in the School of Engineering; in Physics, Chemistry, and Biology in the School of Humanities and Sciences; in the departments and programs in the School of Medicine, as well as Bioengineering located in the Schools of Engineering and Medicine, and at the Stanford Synchrotron Radiation Laboratory.

Applicants must submit online their curriculum vitae (including research accomplishments, teaching experience, and publications) a transcript of doctoral graduate study, a detailed research and teaching plan, and three references (name and email address). Applications are due by December 1, 2013, but we will continue to accept applications until the position is filled. Please apply online at <http://cheme.stanford.edu/>

The Department of Chemistry at the University of Wyoming invites applications for a tenure-track assistant professor position in inorganic chemistry. A Ph.D. in chemistry or a related field is required; postdoctoral experience is desirable. Applicants with research interests in energy related fields are especially encouraged to apply. Excellence in research, teaching, and advising at both the graduate and undergraduate levels will be expected of a successful candidate. Teaching loads are commensurate with the expectation of a strong, externally funded research program. For additional information, see our web site at <http://www.uwyo.edu/chemistry/> or e-mail to chemistry@uwyo.edu. Applicants should send a CV, research proposals with estimate of start-up costs, a brief statement of teaching interests and arrange for three letters of recommendation to be sent to: **Inorganic Faculty Search Committee, Department of Chemistry, Dept. 3838, 1000 E. University Ave., University of Wyoming, Laramie, WY 82071**. Review of applications will begin October 28th and continue until suitable candidates are identified.

The Department of Chemistry at the University of North Texas invites applications for a faculty position in Physical Chemistry at the Assistant Professor level. A Ph.D. in chemistry or a related field is required, and post-doctoral experience is preferred. The candidate's research program may be in any area of Physical Chemistry, but preference will be given to candidates whose research complements that of current faculty in the department. For additional information and to apply visit our website at <http://facultyjobs.unt.edu>. Review of applications will begin immediately and continue until the position is filled. UNT is an AA/ADA/EOE institution.

The Department of Chemistry and Biochemistry, the Department of Atmospheric and Oceanic Sciences, and the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado Boulder invite applications for a tenure-track faculty position at the Assistant Professor level in Atmospheric/Environmental Chemistry. The successful candidate will teach undergraduate and graduate courses in his/her area of expertise and is expected to develop a vigorous, externally-funded research program. The research area is open within Atmospheric and Environmental Chemistry. Sub-disciplines of particular interest include retrieval and analysis of chemical measurements from satellite instruments, box / regional / global chemical transport modeling, chemistry in fog and cloud droplets, and application of isotope tracers. A PhD is required and postdoctoral experience is preferred. Review of applications will begin November 18, 2013, and applications will be accepted until the position is filled. Applicants should submit a cover letter, curriculum vitae including a list of publications, PDFs of 3+ first author publications, descriptions of proposed research (up to about five pages) and teaching (up to about two pages), and arrange to have four letters of recommendation submitted. The University of Colorado is an Equal Opportunity Employer committed to building a diverse workforce. We encourage applications from women, racial and ethnic minorities, individuals with disabilities and veterans. Alternative formats of this ad can be provided upon request for individuals with disabilities by contacting the ADA Coordinator at hr-ada@colorado.edu. Applications are accepted electronically at the Jobs at CU Website: <https://www.jobsatcu.com/postings/71231> Review of applications will begin on November 18, 2013. Applications will be accepted until the position is filled.

Franklin College invites applications for a full time tenure-track Assistant Professor position from candidates who excel in teaching General Chemistry and with a demonstrated ability to teach Physical Chemistry (with a focus on Thermodynamics and Kinetics), and either advanced Inorganic and/or any other specialty elective courses. The successful candidate will teach both lectures and labs and will be expected to involve students in undergraduate research. The position, which begins in August 2014, requires an emphasis on teaching and commitment to liberal arts education. Demonstrated interest or prior experience in undergraduate teaching and Ph.D. required (must be completed by August 1, 2014). Applications received by November 15, 2013 will be

given full consideration. Send a letter of interest, a statement of teaching and undergraduate research philosophy, a CV, graduate and undergraduate transcripts, a sample of teaching evaluations, and have three letters of recommendation sent to: **Employee Resources** Franklin College 101 Branigin Blvd. Franklin, IN 46131 Or by e-mail: employeeresources@franklincollege.edu

The Department of Chemistry at the University of Dayton is seeking two organic chemistry faculty at the Assistant Professor rank. Anyone interested should contact me and apply online.

David W. Johnson
Department of Chemistry
University of Dayton
Dayton, OH 45469-2357

The Department of Chemistry and Biochemistry at The University of Maryland, Baltimore County (UMBC) invites applications for a full-time, tenured/ tenure-track faculty position at the Assistant or Associate Professor level. Applicants are expected to establish a vigorous, externally funded, research program in any sub-discipline of an area broadly defined as analytical chemistry (e.g., bio-analytical, materials, energy, etc.). The successful applicant should have a PhD and postdoctoral experience and will be expected to teach at both the undergraduate and graduate (PhD and MS) levels, with particular emphasis on analytical and instrumental chemistry courses. Applications from women, minorities, individuals with disabilities and other traditionally under-represented groups in the sciences are especially encouraged. The appointment will commence August 2014. The Department (www.umbc.edu/chem) is a highly cross-disciplinary and interactive group of faculty, post-doctoral fellows, and students engaged in cutting edge research, working in state-of-the-art laboratory facilities in a recently renovated building. UMBC is strategically situated on a suburban campus in the intellectually and culturally vibrant Baltimore-Washington corridor, providing unique opportunities afforded by its diversity, intermediate size and world-class infrastructure.

To Apply: Applicants should submit curriculum vitae, description of research plans, and statement of teaching philosophy as well as arrange for three letters of recommendation to be sent to: Chair, Faculty Search Committee Department of Chemistry and Biochemistry University of Maryland, Baltimore County 1000 Hilltop Circle Baltimore, MD 21250 Electronic submissions can also be made to chemsearch@umbc.edu. UMBC is an Equal Opportunity/Affirmative Action Employer. Review of applications will begin November 15, 2013 and continue until the position is filled.

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: 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.