

**2015 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
November 2, 2015

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

Monday November 2<sup>nd</sup>:            *Department of Chemistry Special Seminar:*  
   *Christina Woo, Stanford University*  
   Ryan 4003  
   1:00 – 2:00pm

Tuesday November 3<sup>rd</sup>:            *Department of Chemistry Special Seminar:*  
   *Justin Kim, Stanford University*  
   Ryan 4003  
   1:00-2:00pm

Friday November 6<sup>th</sup>:            *Department of Chemistry Colloquium:*  
   *George Christou, University of Florida*  
   Tech LR3  
   4:00 – 5:00pm

**BIP**

BIP returns to its morning time slot. 10:00am every Friday in Tech K140

**Arrivals**

No new arrivals this week

**Opportunities**

**The Clemson University Department of Chemistry** invites applications for a tenure-track faculty position in materials chemistry. Applicants from all areas of materials chemistry are invited though special consideration will be given to applicants applying state-of-the-art computational and/or big data methods to problems in materials chemistry. Applicants must possess a Ph.D. in Chemistry or a related field and will be expected to teach undergraduate and graduate level courses and to build an internationally recognized and funded research program.

Applicants at the rank of Assistant, Associate, or Full Professor will be considered, depending upon experience and qualifications. Application materials (PDF email preferred) including a curriculum vitae, a description of proposed research plan(s), teaching philosophy, and three letters of reference should be sent to Professor Joseph S. Thrasher at the following address: Department of Chemistry, Chemistry Faculty Position, c/o Mrs. Sharon Smith, Clemson University, Clemson, SC 29634-0973.

Electronic submissions accepted at: [sharons@clemson.edu](mailto:sharons@clemson.edu).

Review of applications will begin November 20, 2015 and continue until the position is filled. The expected start date is August 2016.

**Faculty Positions Available at Hunan University, Changsha, China** The Institute of Chemical Biology and Nanomedicine (ICBN) invites outstanding researchers in chemical biology, nanomedicine and related fields to apply for research track faculty positions. Successful candidates will be appointed at the Assistant Professor rank and will be expected to establish independent research programs with international visibility and that make significant contributions to the field.

The ICBN is directed by distinguished professors Chad A. Mirkin, David R. Walt, and Milan Mrksich who are leading experts in the fields of bioanalytical chemistry, chemical biology and nanotechnology. Successful applicants will be provided with world-class laboratories in a new facility at Hunan University. Faculty will receive significant research funds and will have access to exceptional core instrument facilities.

#### Research Scope

Bioanalytical Chemistry, Chemical Biology, Chemical Sensing, Materials Innovation for Medicine and Nanoscience

#### Highlights

Very competitive startup funding and salary are available.

The ability to compete for funding under the Young Talents Program (青年千人) is preferred.

Positions are open until they are filled.

Applicants must have a Ph.D. degree in a relevant field and a record of exceptional research accomplishments. All applications will be kept confidential.

Applicants should send a cover letter and curriculum vitae Dr. Huimin Li, Managing Director, Institute of Chemical Biology and Nanomedicine, Hunan University, China, [huiminli@hnu.edu.cn](mailto:huiminli@hnu.edu.cn).

**The Chemistry and Physics Department at Chicago State University** invites applications for a part-time, non-tenure track lecturer in Chemistry. Primary duties include teaching 1 or 2 sections of Organic Chemistry during the 4.5 month spring semester January 12 to May 15 2016.

Instructors are expected to: teach lectures, develop syllabi and teaching materials related to courses taught, assess student, assign grades and hold regular office hours. A Master's degree or Doctorate degree in the area of Organic Chemistry is required. For further information please contact Dr. Edmundo Garcia, Department Chair, [edmundo.garcia@csu.edu](mailto:edmundo.garcia@csu.edu), 773-995-2325.

**The Department of Chemistry at the University of Houston** invites applications for a tenure-track faculty position in experimental biophysical chemistry. Desired start date of September 1, 2016. The University of Houston is an Equal Opportunity/Affirmative Action institution. Minorities, women, veterans and persons with disabilities are encouraged to apply. <https://jobs.uh.edu/postings/26725>  
Applicants must have a PhD and postdoctoral experience in chemistry and/or physics.

#### Required Documents

1. Cover Letter/Letter of Application
2. CV
3. Teaching Philosophy
4. Research Statement

\*\*The statement of teaching interests and experience should be a maximum of one page in length. Research plans should be a maximum of five pages total in length.

**The Department of Chemistry at Virginia Commonwealth University** invites applications for a tenure-eligible, Assistant Professor position in the broad area of Analytical Chemistry to begin in fall 2016. The candidate is expected to develop and maintain a funded, nationally recognized research program. Teaching will primarily be in undergraduate and graduate courses in analytical chemistry. The candidate's research interests should complement those of existing faculty; those candidates with analytical chemistry interests that bridge to nanoscience and/or chemical biology are encouraged to apply. Candidates Demonstrated experience working in and fostering a diverse faculty, staff, and student environment, or the commitment to do so.

A Ph.D. in chemistry is required and post-doctoral experience is strongly encouraged. Well qualified candidates at higher ranks may be considered, contingent on funding availability.

Candidates will submit:

- (1) a cover letter
- (2) a curriculum vitae
- (3) a document containing detailed research proposals, teaching plans and an estimate of start-up costs to <https://www.vcujobs.com/postings/47038> .

In addition, names of three references must be entered into vcujobs; these individuals will be asked to provide recommendation letters. Review of applications will begin immediately and continue until the position is filled. Please contact Sarah C. Rutan, Search Committee Chair, at [srutan@vcu.edu](mailto:srutan@vcu.edu) for any questions about the position.

Virginia Commonwealth University is an equal opportunity/affirmative action employer and seeks to provide equal opportunities for employment without regard to race, color, religion, national origin, age, gender, political affiliation, veterans' status, sexual orientation, gender identity, gender expression, genetic information, or disability. Virginia Commonwealth University welcomes individuals with diverse backgrounds, experiences, and ideas and those who embrace and value diversity and inclusivity.

**Lumileds located in San Jose, CA** is looking for Failure Analysis Engineers. The challenge is to identify the root cause of electrical, chemical, structural, and thermal defects and failures. In order to successfully carry out various kinds of failure/defect analysis, failure analysis engineer needs to continuously study new technical areas and come up with the creative ideas to solve the technical issues which are most of time multidisciplinary. FA Engineer is a key member of product development and process development and works closely with product development team, process development team and manufacturing team. FA engineer's contribution immediately and significantly impacts the quality of company's products.

Your Responsibilities:

- Will analyze product failure to identify the root cause of the failure of new product and new process
- Will analyze yield reject to improve manufacturing yield
- Will characterize LED product chemically, electrically, optically, thermally and structurally
- Will develop 1) new characterization tool and 2) application of characterization tool
- Will work with functional team for product development and process development

Your Team:

Advanced FA Team at Lumileds is composed of highly technical and talented staffs with various backgrounds (Material Science, Electrical Engineering, Chemical Engineering, and Physics). The team is in charge of performing 1) Failure Analysis for new product/process development and 2) Defect Analysis for yield improvement.

#### Our Offer:

Advanced FA Team will provide never-ending technical trainings and offer various kinds of interesting and technical challenges which help you technically grow quickly and eventually become a master of technical problem solving.

#### What We Are Looking For

Advanced FA Team is looking for a highly motivated and passionate technical staff who is willing to learn various technical areas, has out-of-box thinking and can bring creative ideas and solutions to technical challenges.

#### Qualifications:

- PhD in Chemistry with emphasis in polymer material processing and characterization or
- PhD in Analytical Chemistry
- Hands-on experience in various chemistry and polymer characterization tools
- Knowledge on semiconductor device physics/processing is a plus
- Excellent verbal and written communication skills

Contact: Sungwook Huh ([Sungwook.huh@philips.com](mailto:Sungwook.huh@philips.com))

**The Department of Chemistry and Biochemistry at the University of Montana - Missoula** invites applications for a tenure-track faculty position in Environmental Chemistry at the Assistant Professor level to begin August 2016. We welcome applications from scientists with expertise in any area of environmental chemistry. Postdoctoral experience is required. The successful candidate will be expected to teach general, analytical or environmental chemistry courses at the undergraduate and graduate level. We are a small Ph.D. granting department with 15 tenure-line faculty and ~25 graduate students with a strong extramural research program. Excellence in research and undergraduate and graduate education are expected. See <http://hsweb.hs.umt.edu/chemistry/default.php> for more information about the Department and University.

UM, the College of Humanities and Sciences, and the Department embrace diversity as a core value. Applications from persons with diverse backgrounds are especially welcome. Screening of applications will begin on November 15, 2015 and will continue until the position is filled. Inquiries and letters of recommendation should be directed to the Department at: [chemistry@umontana.edu](mailto:chemistry@umontana.edu) Applicants are required to submit all application materials, including a letter of intent, full CV, a summary of research plans, and a statement of teaching philosophy to: [Environmental Chemistry Faculty Position](#). The University of Montana is a ADA/EOE/AA/Veteran's Preference Employer.

**The Surface Chemistry Group in the Materials Science Division at Argonne National Laboratory** is in search of a postdoctoral appointee. The successful candidate will enable next generation solar energy conversion through new intermediate band solar absorbers and thermal photovoltaic design. In collaboration with theoretical and computational colleagues, the appointee will fabricate novel thin film devices as well as advance the basic science of intermediate band semiconductor growth and characterization. Atomic layer deposition, materials synthesis and crystallization, as well as optoelectronic characterization will be required. Previous device experience is preferred, as device design and assessment will be emphasized. Candidates within three years of completion of their Ph.D. are eligible.

Interested candidates should send a detailed CV, along with a list of publications, to Alex Martinson [martinson@anl.gov](mailto:martinson@anl.gov). Argonne is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC. Argonne is an equal opportunity employer, and we value diversity in our workforce.

**The School of Sciences at Indiana University Kokomo** invites applications for a full time, tenure-track, 10-month, organic chemistry position at the assistant professor level beginning August 1, 2016. Information about the School can be found at: [www.iuk.edu/sciences](http://www.iuk.edu/sciences)

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

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

Salary is competitive and includes an excellent fringe benefits package. Although the review process will commence October 23, 2015, applications will be accepted until the position is filled. Interested candidates should review the application requirements and submit their application at: <https://indiana.peopleadmin.com/postings/1908>. Questions regarding the position or application process can be directed to Lu Ann Name, School of Sciences, Indiana University Kokomo, P.O. Box 9003, Kokomo, IN 46904-9003, [Lname@iuk.edu](mailto:Lname@iuk.edu). The application must include a cover letter, a *curriculum vitae* outlining appropriate education and work experience, a one-page statement outlining teaching philosophy, a one-page statement outlining research agenda, unofficial copies of undergraduate and graduate transcripts, and the names, mailing addresses, email addresses, and telephone numbers of at least three professional references.

One of eight campuses of Indiana University, Indiana University Kokomo is a comprehensive non-residential campus located 50 miles north of Indianapolis in Kokomo, Indiana, a city with a population of approximately 55,000. Committed to student success, the campus serves approximately 4,000 students from a 14 county area in north central Indiana. IU Kokomo has approximately 257 full time faculty and staff. Associate, Baccalaureate, and Master degrees are offered. Additional information about Indiana University Kokomo can be accessed at <http://www.iuk.edu>.

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

**Department of Chemistry at Ball State University** is accepting applications for two Tenure-track faculty positions available August 19, 2016 which will include those in analytical, biochemistry, inorganic or physical chemistry. Responsibilities: develop an externally-funded research program that complements the department's existing research, that involves undergraduate and graduate students, and preferably with applications in materials, computational or environmental science; teach undergraduate

and graduate classes in specialty as well as teach general chemistry. **Minimum qualifications:** Ph.D. degree in Chemistry or closely related area; postdoctoral research experience or equivalent; evidence of potential for excellence in teaching; evidence of potential for excellence in research. **Preferred qualifications:** Teaching experience at the collegiate level, e.g. teaching assistant, instructor, Assistant Professor; research interests that focus on an area which complements the department's existing research programs. ([www.bsu.edu/chemistry](http://www.bsu.edu/chemistry))

Send cover letter, vita, copies of undergraduate and graduate transcripts, statement of teaching philosophy, three original letters of recommendation, and description of proposed research to: Dr. Robert E. Sammelson, Chairperson at [chemoffice2@bsu.edu](mailto:chemoffice2@bsu.edu). Review of applications will begin immediately and will continue until the position is filled.

The university offers an excellent benefits package, including health care and retirement plans, tuition assistance for employees and dependents, and generous time off with pay.

Ball State University is an Equal Opportunity/Affirmative Action employer that is strongly and actively committed to diversity within its community. Women, minorities, individuals with disabilities and protected veterans are strongly encouraged to apply. All qualified applicants will receive equal consideration for employment without regard to race, color, religion, sex, national origin, age, disability, protected veteran status or any other legally protected status.

**The Department of Chemistry at The University of Chicago** invites applications from outstanding individuals for the position of Assistant Professor of Chemistry in the area of organic chemistry. Applicants must apply online to the University of Chicago Academic Career website at <http://tinyurl.com/oxvy7n8>. Applicants must upload a cover letter, a curriculum vitae with a list of publications, a succinct outline of research plans and a one page teaching statement. In addition, three reference letters are required. At the time of hire the successful candidate must have a Ph.D. in Chemistry or a related field. Joint appointments with other departments are possible. Review of applications will continue until all positions are filled.

Referral letter submission information will be provided during the application process.

Additional Information or Requirements:

Statement:

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran status or status as an individual with disability.

The University of Chicago is an [Affirmative Action / Equal Opportunity](#) / Disabled / Veterans Employer.

Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-5671 or email [ACOppAdministrator@uchicago.edu](mailto:ACOppAdministrator@uchicago.edu) with their request.

Required Applicant Documents:

Cover Letter

Curriculum Vitae

Teaching Statement

Research Statement

Optional Applicant Documents:

**The Department of Chemistry at The University of Chicago** invites applications from outstanding individuals for the position of Assistant Professor of Chemistry in the area of inorganic chemistry. Applicants must apply online to the University of Chicago Academic Career website at <http://tinyurl.com/nq59kgr> . Applicants must upload a cover letter, a curriculum vitae with a list of publications, a succinct outline of research plans and a one page teaching statement. In addition, three reference letters are required. At the time of hire the successful candidate must have a Ph.D. in Chemistry or a related field. Joint appointments with other departments are possible. Review of applications will continue until all positions are filled.

Referral letter submission information will be provided during the application process.  
Additional Information or Requirements:

Statement:

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Required Applicant Documents:

Cover Letter, Curriculum Vitae, Teaching Statement, Research Statement

**The Department of Chemistry at The University of Chicago** invites applications from outstanding individuals for the position of Assistant Professor of Chemistry in the area of physical chemistry. Applicants must apply online to the University of Chicago Academic Career website at <http://tinyurl.com/py98uyk>. Applicants must upload a cover letter, a curriculum vitae with a list of publications, a succinct outline of research plans and a one page teaching statement. In addition, three reference letters are required. At the time of hire the successful candidate must have a Ph.D. in Chemistry or a related field. Joint appointments with other departments are possible. Review of applications will continue until all positions are filled.

Referral letter submission information will be provided during the application process.  
Additional Information or Requirements:

Statement:

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran status or status as an individual with disability.

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Required Applicant Documents:

Cover Letter, Curriculum Vitae, Teaching Statement, Research Statement

**University of Notre Dame, Department of Chemistry and Biochemistry** - Synthetic

Organic/Medicinal Chemists: Two postdoctoral positions in synthetic organic chemistry/medicinal chemistry are available. The qualified applicant would have a Ph.D. in synthetic chemistry and would be

knowledgeable of modern synthetic techniques and structure analysis. He/she should be able to perform multistep syntheses of molecules designed as potential antibiotics, or probes of mechanisms of action of enzymes involved in antibiotic resistance. Knowledge of enzyme chemistry and/or medicinal chemistry principles is desirable but not required. The work environment is multidisciplinary and the successful candidates will have the opportunity to work among a large group of scientists of similar interests within our groups.

South Bend, Indiana, is a college town and a wonderful place to live. The cost of living is relatively low, so students and postdocs enjoy a higher standard of living compared to other locations. The city is within 1.5 hours of Chicago by car and there are regular train and air service as well.

Interested candidates should e-mail their curriculum vitae, along with the names of three individuals who would be able to write letters of recommendations on their behalf to either of the addresses below: Prof. Mayland Chang ([mchang@nd.edu](mailto:mchang@nd.edu)) or Prof. Shahriar Mobashery ([mobashery@nd.edu](mailto:mobashery@nd.edu))

Department of Chemistry and Biochemistry  
423 Nieuwland Science Center  
University of Notre Dame  
Notre Dame, IN 46556 USA

**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](mailto:rap@nas.edu). There are four annual review cycles.

Review Cycle: **February**; Opens December 1; Closes February 1  
Review Cycle: **May**; Opens March 1; Closes May 1  
Review Cycle: **August**; Opens June 1; Closes August 1  
Review Cycle: **November**; Opens September 1; Closes November 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities. More detailed information and an online application can be found at [www.nationalacademies.org/rap](http://www.nationalacademies.org/rap).