

2018 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
December 3, 2018

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

Tuesday December 4th: *Faculty Lunch Seminar: George Schatz*
Tech K140
12:00pm – 1:00pm

Friday December 7th: *Department of Chemistry Colloquium:*
Professor Xiaoyang Zhu, Columbia University
Tech LR3
4:00-5:00pm

Arrivals

We did not have any new arrivals

BIP

BIP every Friday at 10:00am in Tech K140

Opportunities

Soka University of America (SUA) seeks to fill a full-time tenure-track Professorship (open-rank) in Biochemistry beginning August 2019. The successful candidate will demonstrate their ability to excite and interest students in small classroom and laboratory settings and to develop a productive program of research and scholarship. This position will support SUA's new Concentration in Life Sciences and Pre-Health Program to be housed in a new state-of-the-art science teaching and research facility. The teaching responsibilities of this position include developing and teaching new biochemistry and interdisciplinary classroom and/or laboratory courses for these programs. In addition, the faculty member may develop and teach courses designed for students not concentrating in Life Science that meet the General Education course requirements in "The Natural World." All faculty members also teach at least one course in SUA's cross-disciplinary General Education curriculum (Core, Modes of Inquiry, or Learning Cluster; for course descriptions see our catalog at www.soka.edu). All courses should engage students via project-based and active learning approaches suitable for small class sizes. The teaching load per academic year is five courses. <https://apply.interfolio.com/54250>

SUA is a selective four-year institution offering a challenging B.A. in the liberal arts. The university is committed to cross-disciplinary education and aims to foster close intellectual relations between faculty and students through mentorship. An appreciation of the centrality of peace, freedom and human rights to the happiness of the individual and the world provides the founding impetus for the university and its mission.

Qualifications

Applicants from all fields of biochemistry are welcome with preference for interdisciplinary researchers in fields relevant to our new life sciences concentration, which is designed to prepare students for careers in biology, medicine and public health. Applicants must hold a Ph.D. in Biochemistry or an appropriate

area, and preferably will have postdoctoral experience. Applicants should be versatile enough to teach outside their area of specialization, such as organic chemistry and other chemistry courses, and will have demonstrated excellence in teaching and research.

Benefits / Salary:

Salary will be competitive and commensurate with experience. All full-time faculty members are eligible for medical, dental, and retirement benefits.

Application Instructions

Deadline for applications: December 7, 2018. Applicants should submit a letter of application, curriculum vitae, a one to two-page statement of teaching philosophy (which should also address how the candidate would fulfill the teaching responsibilities described above), evidence of teaching effectiveness, a one-page statement of research interests and three confidential letters of recommendation to be addressed to Bryan Penprase, Ph.D., Dean of Faculty and submitted directly from referees through the Interfolio platform. Employment is contingent on the completion of a successful background check. Please send any inquiries to this email address: facultyrecruiting@soka.edu

X-ray Crystallography Facility at the University of California, San Diego has opening for one (possibly two) postdoc positions. The position is for a full-time crystallography associate who will integrate into the day-to-day operations of the facility. The duties of the position will ultimately include:

- 1) Data acquisition and structure solution on a range of single-crystal and powder samples from academic and industrial partners.
- 2) Training, support and oversight of UC San Diego students and postdocs for data acquisition and structure solution.
- 3) Routine and advanced maintenance of single-crystal and powder X-ray diffraction instrumentation and computing facilities.
- 4) Crystal-growth experiments for organic, inorganic and pharmaceutical compounds.

The X-ray Crystallography Facility at UC San Diego is a state-of-the art instrumentation facility with full-time technical staff and faculty oversight. The facility currently features nine X-ray diffraction instruments for high-throughput analysis of small-molecule, macro-molecule and powder samples. Diffraction capabilities are derived from a combination of Mo, Cu and Ga sealed-tube, rotating-anode and metal-jet sources, as well as cutting-edge X-ray detectors. The facility also maintains a robust user-focused training program for UC San Diego students and postdocs, and visitors from domestic and international institutions.

The ideal candidates should have experience with single-crystal and/or powder diffraction data acquisition and structure solution. Experience with the maintenance of scientific/research instrumentation, and/or proficiency in the upkeep and manipulation of advanced electronics, is also highly desirable. Experience with Rietveld or Multipole refinement is a plus. We intend for this opportunity to be especially appealing to individuals who desire to become crystallography facility directors as a career path.

Interested candidates should forward a cover letter, CV and the names of at least two professional references via email to Prof. Joshua Figueroa (jsfig@ucsd.edu). Female candidates and individuals with under-represented persons status are especially encouraged to apply. Applications will be reviewed as they are received

Ball State University Department of Chemistry is accepting applications for a tenure-track Assistant Professor of Chemistry (Biochemistry)

We are a department that has a long history of focusing our efforts on giving our undergraduate and graduate students a high-quality learning experience in both the classroom and the laboratory settings. We incorporate problem-solving sessions into many courses, have faculty supervision in all laboratories, encourage cooperative learning, and provide numerous opportunities for both formal and informal student-faculty interactions. We take great pride in our faculty-student interactions.

Benefits and Community

<https://cms.bsu.edu/About/AdministrativeOffices/HumanResources/Jobs/Benefits-and-Community/Faculty>

Ball State University Department of Chemistry is seeking applications for a full-time tenure-track faculty position available August 16, 2019 in areas of biochemistry including but not limited to bioorganic, bioinorganic, biophysics and chemical biology. Major responsibilities include teaching undergraduate and graduate classes in the area of biochemistry as well as introductory chemistry courses. The faculty member will also develop an active research program in the area of biochemistry which complements the department's existing research programs and can be externally funded.

Minimum Qualifications: PhD in chemistry, biochemistry or closely related area from an accredited college or university; at least one month of postdoctoral research experience, including but not limited to academic, government or industrial research at time of application; evidence of potential for excellence in teaching and in research demonstrated by at least one semester of part-time or full-time college teaching or teaching assistant experience gained concurrently or at any time, and at least two refereed publications either in print or accepted for publication.

Preferred Qualifications : Additional teaching & postdoctoral experience; demonstrated potential for excellence in teaching and research; research interests that focus on an area which enhances the department's existing research programs.

<https://bsu.peopleadmin.com/postings/15379>

Ball State University Department of Chemistry is accepting applications for a tenure-track Assistant Professor of Chemistry (Organic)

Additional Information

We are a department that has a long history of focusing our efforts on giving our undergraduate and graduate students a high-quality learning experience in both the classroom and the laboratory settings. We incorporate problem-solving sessions into many courses, have faculty supervision in all laboratories, encourage cooperative learning, and provide numerous opportunities for both formal and informal student-faculty interactions. We take great pride in our faculty-student interactions.

Benefits and Community

<https://cms.bsu.edu/About/AdministrativeOffices/HumanResources/Jobs/Benefits-and-Community/Faculty>

Description

Ball State University Department of Chemistry is seeking applications for a full-time tenure-track faculty position available August 16, 2019 in areas of organic, including but not limited to synthetic organic, physical organic, bioorganic, organometallic and polymers. The faculty member will teach undergraduate and graduate classes in the area of organic chemistry as well as introductory chemistry courses. The faculty member will also develop an active research program in the area of organic chemistry which compliments the department's existing research programs and can be externally funded.

Minimum Qualifications: PhD in chemistry or closely related area from an accredited college or university; at least one month of postdoctoral research experience, including but not limited to academic, government or industrial research at time of application; evidence of potential for excellence in teaching

and research demonstrated by at least one semester of part-time or full-time college teaching or teaching assistant experience gained concurrently or at any time, and at least two refereed publications either in print or accepted for publication.

Preferred Qualifications: Additional teaching & postdoctoral experience, demonstrated potential for excellence in teaching and research; research interests that focus on an area which enhances the department's existing research programs.

<https://bsu.peopleadmin.com/postings/15368>

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 high efficiency solar-to-fuels conversion through precise few-atom cluster synthesis and chemically precise bridges across unconventional semiconductors. The appointee will advance the basic science of precision gas-phase surface synthesis (atomic layer deposition) and in situ and ex situ chemical and materials characterization. This will be interdisciplinary and highly collaborative work (part of an Energy Frontier Research Center) that includes surface synthesis, physical and optoelectronic characterization, and electrochemical assessment. Must have demonstrated outstanding promise as a research scientist. Strong applicants will exhibit strong basic science understanding, motivation, and an ability to originate, carry out, and publish significant original research. Strong written and verbal skills are required. Previous experience with atomic layer deposition, inorganic chemistry, surface characterization (ellipsometry, AFM, STM, FTIR), electrochemistry, and solar energy conversion are desirable but not required. A Ph.D. in Chemistry, Materials Science, Physics, or a related field received within the last three years is required.

Interested candidates should send a detailed CV, along with a list of publications, to Alex Martinson 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.