

**2019 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**December 16, 2019**

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

Monday December 16<sup>th</sup>:            *Young Scientist Seminar Series Part 1:*  
   *Dr. Yang Yang, CalTech*  
   Ryan 4003  
   11:00am – 12:00pm

**Arrivals**

We did not have any new arrivals

**BIP**

BIP will resume on Friday January 10<sup>th</sup> at 10:00am in Tech K140

**Opportunities**

**The Department of Chemistry and Biochemistry at The University of Alabama** seeks an outstanding individual with expertise in physical chemistry to fill a tenure track position at the Assistant/Associate Professor rank beginning August 16, 2020. The successful candidate is expected to have a Ph.D. and post-doctoral training in chemistry or a 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 research efforts in the Department and at The University are of particular interest. Detailed information about the Department and its state-of-the-art facilities can be found at <http://chemistry.ua.edu>.

Applicants should apply online at <https://facultyjobs.ua.edu/postings/xxxxx> 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, Physical Chemistry Search Committee, Department of Chemistry and Biochemistry, Box 870336, The University of Alabama, Tuscaloosa, AL 35487 or sent electronically to [chemistry@as.ua.edu](mailto:chemistry@as.ua.edu). Review of applications will begin December 1, 2019 and continue until the position is filled. Applications from women and members of traditionally underrepresented groups in chemistry are especially encouraged.

The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees. Our mission is to advance the intellectual and social condition of the people of the state of Alabama, the nation and the world through the creation, translation, and dissemination of knowledge with an emphasis on quality programs in the areas of teaching, research and service. We are fully committed to campus life that embodies collaboration, collegiality, respect, and a culture of inclusivity. The University of Alabama recognizes the challenges of balancing work and family life of its employees. We are fully committed to providing programs and resources that help address these needs, including employee wellness, dual career assistance, child care, resources for new parents, eldercare, employee emergency relief funds, and leave policies. See <http://hr.ua.edu/work-life-resources> and <https://www.ua.edu/about/mission> for more information.

**The Department of Chemistry and Biochemistry at The University of Alabama** seeks an outstanding individual with expertise in chemistry or biochemistry to fill the endowed Robert Ramsay Chair in Chemistry. The candidate will be a leader at the national and international level in his or her field(s) of study, have a vigorous externally funded research program, and play a leadership role in the department. The ability to teach chemistry or biochemistry courses at both the undergraduate and graduate levels is required. The area of research is open, but areas complementary to existing research efforts in the department and at The University are of particular interest. The position is expected to be filled at the full professor level with a start date in the 2020-2021 academic year. Detailed information about the Department and its facilities can be found at <http://chemistry.ua.edu>.

Applicants should apply online at <https://facultyjobs.ua.edu/postings/xxx> and provide a curriculum vitae including a publication list, research plans and funding history, and teaching philosophy statement, as well as a list of the names of five references. Questions may be sent electronically to [chemistry@as.ua.edu](mailto:chemistry@as.ua.edu). Review of applications will begin January 1, 2020. Applications received after this date will be reviewed upon receipt until the position is filled. Applications from women and members of traditionally underrepresented groups in chemistry are especially encouraged.

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**The Department of Chemistry and Biochemistry at UCLA** seeks applications for temporary lecturer positions in Inorganic Chemistry during the 2019-2020 academic year.

<https://recruit.apo.ucla.edu/JPF05053>

Responsibilities will include lecturing, conducting regularly scheduled office hours, writing and grading exams and problem sets, and supervising teaching assistants for the courses. Lecturer appointments are established quarter by quarter according to the instructional needs of the department. Applications will be kept on file for consideration for any openings that may occur throughout the year. Qualified candidates will have a Ph.D. in chemistry, organic chemistry, biochemistry, or equivalent discipline and have significant experience and strong record in teaching chemistry or biochemistry at the college level.

## REQUIREMENTS FOR ALL POSITIONS

Candidates should provide a curriculum vitae, statement of teaching philosophy (max 1 page), and should arrange for 3 letters of reference to be uploaded to UCLA Academic Recruit.

Review of applications will begin immediately and will continue until the positions are filled.

The University of California, Los Angeles and the Department of Chemistry and Biochemistry are interested in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a campus climate that supports equality and diversity. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, gender identity, national origin, disability, age, sexual orientation or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see:

<https://policy.ucop.edu/doc/4000376/DiscriminatioHarassmentAffirmAction>

**The Institut de Science et d'Ingénierie Supramoléculaires** (ISIS) is accepting applications for a tenure track faculty position. The University of Strasbourg is committed to further strengthening its research efforts in the general area of Complex Systems, with a particular focus on synthetic chemistry, with a national grant (LabEx) offering funding for early stage independent career. It provides a stimulating and attractive environment for interdisciplinary research at the highest international level. Creative researchers with a proven track record wishing to design, synthesis and study complex systems at the molecular level are encouraged to apply. Topics may range from synthetic methodologies, to analysis of behavior or applications in catalysis / material science and/or chemical biology. The laboratories are situated in a highly interdisciplinary state of the art environment at the Institut de Science et d' Ingénierie Supramoléculaires (ISIS) in the heart of Strasbourg (<http://isis.unistra.fr/>). The position is accompanied by an attractive start-up package, including funding for coworkers, consumables and equipment. Tenure evaluation is after 5 years. The new appointee will be expected to contribute to teaching. Applications including a curriculum vitae, a list of publications, a detailed description of future research plans, and a list of potential referees should be received no later than March 1st, 2020 by the search committee : mail to: [directeur@isis.unistra.fr](mailto:directeur@isis.unistra.fr).

**University of Calgary** In 2016, the University of Calgary was awarded \$75 million, over seven years, from the Canada First Research Excellence Fund (CFREF) for its initiative entitled: “Global Research Initiative in Sustainable Low Carbon Unconventional Resources”. The goal of this research is to dramatically reduce the impact of energy extraction and energy use on the environment.

As part of the implementation of its CFREF scientific strategy and to address the Grand Challenge aiming to develop next generation of CO<sub>2</sub> conversion catalysis, a project in the production climate neutral synthetic fuels through electrocatalytic carbon dioxide reduction is seeking up to three team members at the Postdoctoral level to join the project.

The successful candidates will work within a multidisciplinary team of synthetic chemists, electrochemists, surface scientists and engineers consisting of 5-7 PI's, 5 PDFs and a similar number of graduate students. The primary aim will be to develop new, selective CO<sub>2</sub> conversion catalysts supported on novel conducting materials. While initially CO has been targeted as a product, other potential fuels will also be within scope.

Accordingly, we seek applications from qualified candidates within 2-4 years of their Ph.D. degree to fill Postdoctoral Fellow positions with the following specific qualifications:

1. Synthetic inorganic chemistry (1): Ph.D. in inorganic chemistry with an emphasis on the synthesis and characterization of organometallic and coordination compounds, particularly of the first row transition series. The ability to prepare and manipulate air and moisture sensitive compounds, and characterize them using a suite of modern spectroscopic and analytical techniques. Working knowledge of electrochemistry and electrocatalysis is also strongly desired.

2. Electrochemistry and catalysis: Ph. D. in electrochemistry with an emphasis on electrocatalysis, including homogeneous and surface electrochemistry on novel electrode materials. Experience in the evaluation and benchmarking of new CO<sub>2</sub> reduction catalysts, liquid/gas phase product analysis, surface and materials characterization techniques, and mechanistic analysis would be assets.

The appointments will be for 2 years with a \$55,000/year salary (CND dollars); the positions also come with sufficient research support to be managed by the candidate in consultation with the PI members of the team. In addition, the candidates will be required to work within a team environment and so excellent communication skills and the ability to work effectively with a diverse group of interdisciplinary researchers is a must. As PDF team members, strong leadership in project management is also expected.

In assembling the CFREF research teams, aggressive diversity and equity targets are in place and so applications from under-represented groups are especially encouraged.

Applications should be sent directly to Prof. Warren Piers, [wpiers@ucalgary.ca](mailto:wpiers@ucalgary.ca), and should consist of a current CV, a list of 2-3 referees with contact information and a cover letter indicating your are applying for a position with the *Synthetic Fuels* team as a synthetic inorganic chemist or an electrochemist. Please also indicate your availability. The search will continue until the position is filled, preferably by May 1, 2020.

To be eligible as a Postdoctoral scholar at the University of Calgary, the candidate must have been awarded a PhD or equivalent within the five (5) years immediately preceding the appointment. Please review the Eligibility page for more information prior to applying for this position.

**The Department of Chemical Engineering at California State University, Long Beach (CSULB)** is searching for a tenure-track assistant professor in the area of Materials Engineering.

**Required Qualifications:**

- Ph.D. in Chemical Engineering or a closely related field
- Degree at the time of application or official notification of completion of the doctoral degree by August 1, 2020
- Specialization in the area of materials engineering or a closely related field
- Potential for effective teaching at the college level
- Demonstrated potential for successful research, scholarly and creative activities
- Demonstrated commitment to working successfully with a diverse student population

**Preferred Qualifications:**

- Demonstrated excellence in teaching at the college level
- Experience in teaching courses related to materials engineering
- Demonstrated ability and clear plans for the development of research programs

- Ability to develop the curriculum in the areas of materials engineering, including but not limited to corrosion, formulation and manufacturing of composite materials, nanomaterials, green materials, biomaterials, and energy-storage materials

**Duties:**

- Teach undergraduate and graduate courses pertinent to materials engineering, such as fluid mechanics, thermodynamics, material purification, heat and mass transfer, and polymer material fabrication
- Develop new courses including laboratories and update existing courses
- Supervise student projects and theses
- Write grant proposals and seek external research funding
- Conduct independent and collaborative research leading to publications and external funding
- Collaborate with faculty members to plan an option or focus on the materials area in the graduate degree and/or the undergraduate degree
- Participate in service to the department, college, university, and community

CSULB seeks to recruit faculty who enthusiastically support the University's strong commitment to the academic success of all of our students, including students of color, students with disabilities, students who are first generation to college, veterans, students with diverse socio-economic backgrounds, and students of diverse sexual orientations and gender expressions. CSULB seeks to recruit and retain a diverse workforce as a reflection of our commitment to serve the People of California, to maintain the excellence of the University, and to offer our students a rich variety of expertise, perspectives, and ways of knowing and learning.

<http://www.csulb.edu/academic-affairs/faculty-affairs/assistant-professor-of-chemical-engineering-2585>

**U.S. Naval Research Laboratory (<http://www.nrl.navy.mil/>)**

A full-time postdoctoral research position is available for a Synthetic Organic Chemist. The position is located at the U.S. Naval Research Laboratory (<http://www.nrl.navy.mil/>) in Washington DC, in the Optical Sciences Division (<https://www.nrl.navy.mil/opticalsciences/>). The project is an interdisciplinary effort that includes research collaborators from NRL's Center for Biomolecular Science and Engineering and the Electronics Science and Technology Division. The goal of the project is to identify mechanisms to enhance coherent energy transfer between photoactive molecules attached to DNA nanostructures for application to synthetic light harvesting systems, optoelectronic devices, information processing systems, and quantum computing. The candidate will be primarily responsible for synthesizing a series of organic dyes for incorporation into DNA structures by various chemical means including direct incorporation with phosphoramidite linkers. The ideal candidate will design and synthesize a series of organic dyes with phosphoramidite linkers and perform all aspects of DNA synthesis, purification, and characterization. The candidate must have a Ph.D. in the field of organic chemistry with experience and knowledge of multistep organic synthesis, purification and characterization techniques. The candidates are expected to perform some biochemical protocols and photophysical measurements when necessary, and interact with collaborators in the fields of biology and photophysics. Knowledge and experience in peptide chemistry or DNA chemistry and synthesis using a DNA synthesizer is a plus, but not mandatory. Stipend: \$83,398 annually with health benefits, travel allotment, and reimbursement of relocation costs. Applicants must be US Citizens or US Permanent Residents at time of application. Interested candidates should send a letter of interest, a C.V., and the contact information for at least three references willing to write letters of recommendation confirming their credentials to Dr. Igor L. Medintz at [igor.medintz@nrl.navy.mil](mailto:igor.medintz@nrl.navy.mil).

**The Department of Biology and Chemistry at California State University, Monterey Bay (CSUMB)**

invites applications for a tenure-track chemistry faculty position at the assistant level to begin in Fall 2020. We seek applicants with a demonstrated commitment to teaching and research.

- Teaching expectations will be both in lower division chemistry courses and associated lab and electives in the upper division in the applicant's specialty or area of expertise
- The candidate must employ innovative teaching and learning techniques that engage diverse students through active learning, course-based research, and the appropriate use of technology
- There will be a need to develop and maintain a research program that provides opportunities for undergraduates; To do so the candidate must have plans to pursue and obtain extramural funding to support an active research program
- The candidate must sustain scholarly research in chemistry or chemistry education leading to publications and professional visibility
- The successful candidate will collaborate with other faculty and professional outreach programs in the region

#### Minimum Qualifications

- Ph.D. in Chemistry or Biochemistry by the time of appointment
- Commitment to and experience in teaching undergraduates
- Expertise in any area of chemistry
- Excellent written and oral communication skills

#### Preferred Qualifications

- Interest in mentoring undergraduate student research projects and/or internships
- Strong interest in contributing to lower division chemistry education as well as specialty upper division courses
- Demonstrated experience with course and curriculum development
- Proven ability and desire to mentor and teach students from diverse cultural, ethnic, educational, and economic backgrounds
- A record of scholarly achievement including publications, grantsmanship, and external funding
- Demonstrated leadership skills

#### APPLICATION PROCEDURE:

For full consideration, applicants must complete the required online application including three (3) references who can speak to teaching and research abilities, and submit required documents by the priority screening date found at <http://www.csumb.edu/jobs> . Application submissions received after the application screening date will be reviewed at the discretion of the University. Materials submitted become the property of CSUMB and will not be returned.

<http://csumb.peopleadmin.com/postings/5463>

Reasonable accommodations will be provided for qualified applicants with disabilities who self-disclose by contacting University Personnel at (831) 582-3389. For computer/online access you may visit the Tanimura and Antle Family Memorial Library (map).

All employees must be eligible for employment in the U.S.