

**2018 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**January 8, 2018**  
**Happy New Year!**

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

Tuesday January 9<sup>th</sup>:                    *Faculty Lunch Seminar: Neil Kelleher*  
Tech K140  
12:00-1:00pm

Friday January 12<sup>th</sup>:                    *Department of Chemistry Colloquium:*  
*Chad M. Rienstra, University of Illinois, Urbana-Champaign*  
Tech LR3  
4:00-5:00pm

**BIP**

BIP meets every Friday in Tech K140 at 11:00am

**Arrivals**

Wei Cao joined the Gianneschi Group  
Shikai Deng joined the Odom Group

**Opportunities**

**New York University (NYU) Abu Dhabi** is in a multi-year phase of growth. As such, the University's Program in Chemistry invites applications for a faculty position at the rank of assistant professor, tenure track. Faculty in the Program in Chemistry contribute to the multidisciplinary research at NYU Abu Dhabi that is a hallmark of the institution's mission, currently working with faculty from other programs in areas that include chemical genomics, drug discovery and delivery, computer modeling and water management. Candidates are expected to be outstanding scholars with exceptional productivity in their fields, and to act as inspirational teachers and mentors to undergraduate and graduate students, which is also a hallmark of the University's mission.

Since the multidisciplinary research at NYU Abu Dhabi is expanding, applicants from all areas of chemistry are welcome to apply, but individuals with research interests in materials science, chemical biology or computational chemistry are especially encouraged to submit application material. Research related to desalination and water conservation, sustainable energy, drug discovery and delivery, or synthetic biology are of particular interest.

NYU Abu Dhabi is located on Saadiyat Island, the cultural centerpiece of Abu Dhabi. Successful candidates will find a vibrant research and teaching environment that includes supportive and highly motivated colleagues, access to outstanding resources for research, a competitive startup package, and broad opportunities for interdisciplinary work at NYU Abu Dhabi and across campuses of the NYU system. Faculty have access to state-of-the-art core technology platforms that include (1) a fully equipped microscopy facility that houses confocal and stimulated emission depletion (STED) super-resolution microscopes, scanning and transmission electron and atomic force microscopes, and combined confocal Raman atomic force resolution and scanning near-field optical microscopy (AFM SNOM); (2) protein

expression and purification facilities; (3) advanced DNA sequencing facilities; (4) equipment for spectroscopic, thermal and chemical analysis, including nuclear magnetic resonance (NMR) and mass spectrometers; and (5) high performance computing facilities with more than 6,400 computing cores and a peak performance of 70 TFLOPS. To obtain further information about research at NYU Abu Dhabi and related core facilities, visit the University's website at <http://nyuad.nyu.edu/en/research/faculty-research.html>

The terms of employment are highly competitive. Appointments, which are dependent on final budgetary approval, can begin as soon as September 1, 2018, but later start dates are possible. Review of applications will begin December 1, 2017. To be considered, applicants should submit a complete *curriculum vitae*, a statement of teaching and research interests that should not exceed six pages, no more than three representative publications, and three letters of reference in PDF format. If you have any questions, please e-mail [nyuad.science@nyu.edu](mailto:nyuad.science@nyu.edu).

EOE/AA/Minorities/Females/Vet/Disabled/Sexual Orientation/Gender Identity Employer

#### Qualifications

This position is not located in the United States. You must be willing to relocate to Abu Dhabi, United Arab Emirates. <https://apply.interfolio.com/47183>

**New York University (NYU) Abu Dhabi** is in a multi-year phase of growth. As such, the University's Program in Chemistry invites applications for a faculty position at the rank of associate professor or professor, each with tenure. Faculty in the Program in Chemistry contribute to the multidisciplinary research at NYU Abu Dhabi that is a hallmark of the institution's mission, currently working with faculty from other programs in areas that include chemical genomics, drug discovery and delivery, computer modeling and water management. Candidates are expected to be outstanding scholars with exceptional productivity in their fields, and to act as inspirational teachers and mentors to undergraduate and graduate students, which is also a hallmark of the University's mission.

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### **Department of Chemistry and Biochemistry at Duquesne University,**

**located in Pittsburgh, Pennsylvania** is accepting applications for a postdoctoral position in solid-state chemistry. The research project includes the structural and physicochemical characterization of new, multinary chalcogenides with promising infrared nonlinear optical properties, among others. A variety of synthetic methods will be pursued to prepare these materials as microcrystalline powders and single crystals, such as traditional high-temperature solid-state synthesis, polysulfide flux synthesis, iodine vapor transport and Bridgman growth. Characterization methods will include, but are not limited to, powder and single crystal X-ray diffraction, solid-state UV/Vis/NIR diffuse reflectance spectroscopy, thermal analysis, scanning electron microscopy and energy dispersive spectroscopy. Qualified applicants should possess a Ph.D. degree before they begin the position. A background in solid-state chemistry, condensed matter physics or materials science and experience using single crystal X-ray diffraction is essential. Experience performing Reitveld refinements (GSAS or other program) and/or DFT calculations (WIEN2K or other program) is desirable, but not necessary. Other skills that would be of use for this project include the ability to work with data obtained via neutron powder diffraction, as well as magnetic, nonlinear optical and electrical property measurements. Interested applicants should send a complete resume and a short cover letter to Professor Jennifer A. Aitken via email as soon as possible, [aitkenj@duq.edu](mailto:aitkenj@duq.edu). Three letters of recommendation may be requested from applicants at a later date, but should not be sent with these initial application materials. The e-mail should have the subject heading "Solid-State Postdoc Position – Applicants last name".

**Washington State University** is seeking qualified candidates for a permanent full-time tenure track faculty position as an Associate Professor or Full Professor in the Department of Chemistry at the WSU Main Campus in Pullman, Washington.

In this renewable joint position with Pacific Northwest National Laboratory, you will also serve as the Director of the Institute of Nuclear Science and Technology. This recently formed Institute consolidates the national and international leadership found at WSU and PNNL within the domain of nuclear science and technology, particularly as it pertains to nuclear forensics, environmental remediation and waste storage, and the fate of materials in radiation environments. With major institutional investments, the Institute is elevating the scientific and technical impact of nuclear research by leveraging the unique facilities and complementary capabilities between WSU and PNNL to build leadership and signature programs in nuclear science.

The Director will help shape the direction and lead the growth of the Institute, engaging with partners, recruiting a diverse group of new members, and establishing and nurture collaborative relationships with non-WSU members.

Applicants with a Ph.D. in Chemistry or a related discipline, an academic research program related to Chemistry in Nuclear Science and Technology, the ability to teach graduate and undergraduate courses in chemistry (including service courses), and excellent management and communication skills are strongly encouraged to apply.

The full posting is at: <https://www.wsujobs.com/postings/35783>

**Northwestern University SQI – BioNanotechnology** Reporting to the Core Facility Director, the Assistant Core Scientist is responsible for ensuring the completion of research projects within the Peptide Synthesis Core Facility, which is part of the Simpson Querrey Institute (SQI). The Assistant Core Scientist provides services and consultation to researchers and investigators, facilitates highly technical

and specialized scientific research, and guides the Core in relevant areas to ensure consistent, high quality service for the research community.

Key responsibilities include design and execution of peptide synthesis, organic synthesis, HPLC purification, mass spectrometry and other related laboratory duties in a service-based environment. Independently conducts experiments, carries out procedures and processes, and analyzes data. Troubleshoots and revises existing methodologies and develops new experimental methodologies. Provides user support, training, and consultation with graduate students, postdoctoral researchers, and principle investigators.

May participate in grant writing as well as marketing and outreach programs for the facility and may assist in the development and implementation of GLP/GMP protocols. SQI is headquartered on the Chicago campus and manages additional laboratories on the Evanston campus. The Institute includes the Center for Regenerative Nanomedicine (CRN), the Center for Bio-Inspired Energy Science (CBES), and the Center for Bio-Integrated Electronics (CBIE). CRN is supported by an endowment provided to Northwestern by the Querrey Simpson Charitable Foundation, CBES is supported by an Energy Frontier Research Centers grant from the Department of Energy, and CBIE is supported by additional endowment funds.

*\*A cover letter is required for full consideration\**

*Please Note: This candidate will work in a chemistry laboratory environment. Occasionally a flexible work schedule may be required.*

Northwestern University job ID# 32239

[https://careers.northwestern.edu/psp/hr92prod\\_er/EMPLOYEE/HRMS/c/HRS\\_HRAM.HRS\\_APP\\_SCHJOB.GBL?Page=HRS\\_APP\\_JBPST&Action=U&SiteId=1&FOCUS=Employee&JobOpeningId=32239&PostingSeq=1](https://careers.northwestern.edu/psp/hr92prod_er/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=HRS_APP_JBPST&Action=U&SiteId=1&FOCUS=Employee&JobOpeningId=32239&PostingSeq=1)

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**The College of Lake County** is currently searching for one full-time faculty member to be housed in the Biological & Health Sciences division. Responsibilities for this position include teaching courses in the chemistry department. This position will be involved in the instruction of first and second year college level courses to a diverse student body during daytime, evening, and Saturday classes at our main campus, extension sites and local business and industry sites. The faculty member will develop, prepare, and revise instructional materials as well as participate in program evaluation and curriculum planning and development. The instructor will participate in department, division, and general faculty meetings, serve on division and college committees, and participate in other forms of college service. Instructors are required to maintain an active program of professional development related to institutional objectives. The instructor will utilize appropriate technology to deliver instructional materials, maintain grades, provide timely communications with students, etc. The instructor shall maintain appropriate office hours for student access. Maintains current knowledge of subject matter via professional organization membership, attendance of seminars, conferences and classes, and professional publications. There is potential for the instructor to lead efforts for increasing course offerings and growing enrollments at the Lakeshore Campus. More information can be found at: <https://jobs.clcillinois.edu/postings/9842>.

**The University of Oregon Computer and Information Science Department** invites applications for a tenure track position of Assistant Professor in High-performance Data Science, to begin in fall 2018. We seek candidates specializing in data analytics, computational science, and/or AI applied to large scientific data, with a particular domain emphasis on Physics, Chemistry, Earth Sciences, or Psychology. We are especially interested in scholars who will enhance the department's existing strengths in machine learning, deep learning, and data mining.

This search is part of a presidential initiative to establish excellence in data science at the University of Oregon (see <https://provost.uoregon.edu/data-science>), oriented toward solving significant problems in science and society. As part of this initiative, the university is building a cross-disciplinary curricular and research data science program, which is supported by the university's recently launched High Performance Computing Research Core Facility – a supercomputing cluster with extensive computational and data storage capacity. There will also be opportunity to become involved with the university's Knight Campus for Accelerating Scientific Impact.

We are a diverse and growing department with strengths in high-performance computing, networking and distributed systems, and data science. Competitive applicants should have a record of excellence in research and potential to do outstanding teaching at the graduate and undergraduate levels.

We particularly welcome applications from scholars who are from populations historically underrepresented in the academy, and/or who have experience working with students from diverse backgrounds. The department actively recruits underrepresented groups for all cohorts: faculty, graduate students, and undergraduate students.

Minimum Requirements: Ph.D. in Computer Science or related field in hand by time of appointment. Salary is competitive. Candidates are asked to apply on line at <https://academicjobsonline.org/ajo/jobs/10509> by submitting an application letter, a curriculum vitae, a research statement, a teaching statement, and at least three letters of recommendation by 15 January 2018, or until the position has been filled. If you are unable to use this online resource, please contact [faculty.search@uoregon.edu](mailto:faculty.search@uoregon.edu) to arrange alternate means of submitting application materials. The University of Oregon is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment and strongly encourages applications from minorities, women, and people with disabilities. Applicants are requested to include in their cover letter information about how they will further this goal. In particular, candidates should describe previous activities mentoring minorities, women, or members of other underrepresented groups.

**PhD Organic Medicinal Chemist—PTC Therapeutics** The expansion of discovery research at our South Plainfield, NJ research facility has resulted in the creation of additional positions for PhD Organic Medicinal Chemists. Selected candidates will be responsible for the design and synthesis of novel pharmacologically active compounds using synthetic organic and medicinal chemistry techniques. For more information about PTC Therapeutics visit [www.ptcbio.com](http://www.ptcbio.com).

Requirements:

- Recent completion/soon to be completed PhD in organic chemistry, or PhD in organic chemistry and post-doctoral position
- Thorough knowledge of the practical and theoretical aspects of synthetic organic chemistry, including reaction mechanisms, multi-step organic chemistry, modern analytical techniques for compound purification and characterization, and database searching techniques for relevant literature and reaction precedents
- Demonstrated record of achievement as reflected by publications in peer-reviewed journals or presentations at chemistry focused conferences/events

For interested applicants, please send a resume and brief research summary to Jigar Patel ([jigar.patel@ptcbio.com](mailto:jigar.patel@ptcbio.com)).

\*Please indicate your current citizenship and visa requirements

**University of San Diego** is accepting applications for a Postdoctoral Researcher Position in biological soft matter physics. Excellent candidates are invited to apply for a postdoctoral researcher position in the Robertson-Anderson lab in the Physics and Biophysics Department at the University of San Diego. The Robertson-Anderson lab specializes in understanding the molecular-level dynamics that give rise to novel physical properties present in soft biological materials. We develop and use force spectroscopy and fluorescence microscopy techniques to characterize molecular transport and microrheological properties of these materials. We also aim to develop new bio-inspired composite materials with novel emergent properties. The open position is for a cutting-edge Air Force project to elucidate the molecular dynamics governing DNA-based composite biomaterials. The postdoc will be responsible for developing instrumentation/techniques as well as DNA purification and fluorescence assays; and designing and executing microrheology experiments and analysis. Candidates should have experience with force spectroscopy and image analysis and be well-versed in Matlab and Labview. Knowledge/experience with soft matter physics and molecular biochemistry techniques is preferred. University of San Diego is a primarily undergraduate institution so the postdoc will be expected to help advise undergraduate researchers, and will have opportunities to teach depending on interest and research progress. Candidates should have a PhD in physics although related doctoral degrees will be considered. Applications should include a cover letter, CV, and 3 letters of recommendation. All materials should be emailed to [randerson@sandiego.edu](mailto:randerson@sandiego.edu). Applications will be considered until the position is filled.

**Physics and Biophysics Department at the University of San Diego.** Excellent candidates are invited to apply for a postdoctoral researcher position in the Robertson-Anderson lab in the Physics and Biophysics Department at the University of San Diego. The Robertson-Anderson lab specializes in understanding the molecular-level dynamics that give rise to novel physical properties present in soft biological materials. We develop and use force spectroscopy and fluorescence microscopy techniques to characterize molecular transport and microrheological properties of these materials. We also aim to develop new bio-inspired composite materials with novel emergent properties. The open position is for a cutting-edge Air Force project to elucidate the molecular dynamics governing DNA-based composite biomaterials. The postdoc will be responsible for developing instrumentation/techniques as well as DNA purification and fluorescence assays; and designing and executing microrheology experiments and analysis. Candidates should have experience with force spectroscopy and image analysis and be well-versed in Matlab and Labview. Knowledge/experience with soft matter physics and molecular biochemistry techniques is preferred. University of San Diego is a primarily undergraduate institution so the postdoc will be expected to help advise undergraduate researchers, and will have opportunities to

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**Pacific Northwest National Laboratory** A postdoctoral researcher is needed in the Catalysis Science Group for experimental research. The position will be focused on the reduction of CO<sub>2</sub> using catalysts based on inorganic and organometallic complexes. The planned research will involve the design, synthesis, and characterization of new metal complexes, including thermochemical and mechanistic studies, leading to new molecular catalysts in the area of reduction of CO<sub>2</sub> to fuels.

#### Equal Employment Opportunity

PNNL is an Equal Opportunity/Affirmative Action Employer that is committed to hiring a diverse, talented workforce. EOE Disability/Vet/M/F/Sexual Orientation/Gender Identity. Staff at PNNL must be able to demonstrate the legal right to work in the United States.

#### Minimum Qualifications

Candidates must have received a PhD within the past five years (60 months) or within the next 8 months from an accredited college or university.

#### Preferred Qualifications

Experience in synthetic and mechanistic organometallic/inorganic chemistry and handling air-sensitive materials is required. Excellent oral and written communications skills are mandatory. Proficiency with a range of spectroscopic techniques, particularly NMR, is essential. Experience in kinetic measurements of catalytic reactions is desirable but not required. Must have the ability to work in a highly collaborative environment.

The perfect candidates would have these 3 characteristics:

Expertise in preparing and handling highly air-sensitive complexes

Experience in NMR and kinetics of catalysis

Independent and highly motivated

Ph.D. in organometallic chemistry or inorganic chemistry

<https://pnnl.jibeapply.com/jobs/306986/Post+Doctorate+RA++Catalysis+Science?lang=en-US>

**The Department of Chemistry at the University of Wyoming** invites applications for an extended term Academic Professional Lecturer (APL) in organic chemistry. The successful candidate will teach at the undergraduate organic chemistry level and manage the undergraduate organic teaching labs.

Responsibilities for the organic teaching labs will include experiment development and testing, supply purchasing, weekly lab setup, managing teaching assistants and maintenance of instruments and labs. The organic lab facilities are comprised of three labs with associated instrument rooms and computer analysis rooms in the recently completed Enzi Undergraduate Lab Facility

(<http://www.uwyo.edu/chemistry/building/>). The successful applicant will also be required to contribute to departmental and university services.

Review of applications will begin January 15, 2018 and continue until suitable candidates are identified. The position will start Fall 2018 and will be filled at the Assistant APL level (6 year renewable terms via 9-month appointments). The University of Wyoming invites diverse applicants to consider our employment opportunities. We are also especially interested in candidates who have experience working with diverse populations and/or diverse initiatives. *Minimum Qualifications:* Ph.D. or equivalent in chemistry

*Desired Qualifications:* a strong background in practical organic laboratory operations, teaching experience at the undergraduate level and a strong understanding of mechanistic organic chemistry.

*Required Materials:* Complete the online application using the below link and upload as one document: a CV listing relevant organic laboratory experience, graduate level organic coursework, any teaching experience and include a statement of teaching philosophy.

[https://jobs.uwyo.edu/psp/EREC/UWEXTERNAL/HRMS/c/HRS\\_HRAM.HRS\\_CE.GBL?Page=HRS\\_CE\\_JOB\\_DTL&Action=A&SiteId=6&JobOpeningId=9143&PostingSeq=1](https://jobs.uwyo.edu/psp/EREC/UWEXTERNAL/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_JOB_DTL&Action=A&SiteId=6&JobOpeningId=9143&PostingSeq=1)

Additionally, applicants should also arrange for three letters of recommendation to be submitted on their behalf to [chemistry@uwyo.edu](mailto:chemistry@uwyo.edu).

**The University of Nevada, Reno** is searching for a continuing full-time non-tenure-track Chemistry Lecturer. Duties include lecturing at the introductory and intermediate levels including physical chemistry, general chemistry, and analytical chemistry; overseeing the physical chemistry and instrumental analysis instructional laboratory programs and coordinating with departmental lecture courses; curriculum development and implementation; and undergraduate advising.

The successful applicant for this position will be encouraged to develop new laboratory experiments, with possibilities for incorporating modern physical chemistry laboratory experiments and computational chemistry. Applications for internal instructional enhancement funding and contributions to proposals for external instructional funding will also be encouraged.

This position requires training, evaluating and organizing the activities of graduate level teaching assistants; working effectively with chemistry stockroom staff; coordinating activities with other faculty; and working effectively with the department's Director of Laboratories/Safety Officer.

This is a 9-month full-time continuing position, with the potential for further summer opportunities including teaching, research, student advising, curricular development, and/or laboratory management.

The University of Nevada, Reno has a growing and increasingly diverse student population of approximately 21,000, including over 2,800 graduate students. The city of Reno offers an excellent quality of life, with entertainment and cultural opportunities in excess of most cities of similar size. The city lies one hour from Lake Tahoe and four hours east of San Francisco in the valley of the Truckee River on the eastern slope of the Sierra Nevada, and has a mild high desert climate. A highly rated location for living and outdoor recreation, the Reno area also enjoys a flourishing and diverse intellectual, artistic, and cultural community.

The University of Nevada, Reno recognizes that diversity promotes excellence in education and research. We are an inclusive and engaged community and recognize the added value that students, faculty, and staff from different backgrounds bring to the educational experience.

Required Qualifications

Doctoral degree in Chemistry or closely related field and teaching experience.

Evidence of ability in and strong commitment to the following areas: teaching effectively at the introductory and intermediate levels of physical, analytical and general chemistry; developing and implementing new lecture and laboratory curricula; management of an instructional laboratory program.  
Contact Information for this Position

Sharee Williams (775) 682-8795 [shareew@unr.edu](mailto:shareew@unr.edu) <https://www.unrsearch.com/postings/25901>



**The College of Science at Virginia Tech and the Academy of Integrated Science, through its Integrated Science Curriculum (<https://www.ais.science.vt.edu/programs/isc.html>)**, are placing a strong emphasis on integrated and interdisciplinary teaching. As part of this initiative, Virginia Tech has a non-tenure track faculty position for the Leader of the Integrated Science Curriculum in the Academy of Integrated Science to start in Fall 2018. The appointment will be at the rank of Collegiate Assistant Professor with an initial 3-year appointment and the possibility of multi-year renewal upon successful review.

The Integrated Science Curriculum is a two-year program that prepares students from the College of Science for their respective majors through a curriculum built around student teams working on problem-oriented exercises while mastering interdisciplinary concepts. Biology, chemistry, mathematics, and physics are intertwined, in lectures and in labs, to achieve a dynamic understanding of a wide range of fundamental principles within the modern scientific method.

We seek candidates who are passionate about interdisciplinary teaching of undergraduate students in an inclusive and integrated environment. Responsibilities include teaching undergraduate courses and laboratories related to the Integrated Science Curriculum, where successful candidates will:

- Make significant contributions to our interdisciplinary undergraduate instruction; coordinate laboratory and lecture courses, work closely with our undergraduate students, and lead efforts in curriculum enhancements and innovative pedagogy;
- Continue to develop professional capabilities and participate in scholarly activities, including travel to and participation in professional conferences and societies; and participate in department, college, and university service and governance, as well as professional service.

Applicants must have a Ph.D. in biochemistry, biology, chemistry, physics or a closely related field. Successful candidates will be expected to teach effectively at the undergraduate level and work closely with the existing interdisciplinary programs in the Academy of Integrated Science. Applications must be submitted online at <https://listings.jobs.vt.edu/postings/80232> (posting number TR0170134) and should include a cover letter, curriculum vitae, a statement of teaching philosophy that describes an integrated vision for interdisciplinary science education, a description of previous activities mentoring minorities, women, or members of other underrepresented groups as well as how the applicant will further Virginia Tech's commitment to build a culturally diverse educational environment, and contact information for three references. The review of applications will begin on January 15, 2018 and continue until the position is filled. As part of the hiring process, the successful applicant must pass a criminal background check. Questions regarding the position can be directed by Email to Prof. Michel Pleimling, Integrated Science Curriculum Faculty Search Committee Chair, at [pleim@vt.edu](mailto:pleim@vt.edu).

Virginia Tech is an EO/AA university, and offers a wide range of networking and development opportunities to women and minorities in science and engineering, and additionally provides a competitive dual hiring program for couples. Individuals with disabilities desiring accommodation in the application process should notify Dr. Nora Dragovic in the Academy of Integrated Science (Email: [nora84@vt.edu](mailto:nora84@vt.edu), Tel: 540- 231-8131).