

**WEEKLY BULLETIN**  
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY  
EVANSTON, ILLINOIS  
**November 9, 2020**

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## Return to Research Guidelines

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## New Arrivals

There are no new arrivals for this week.

## BIP

BIP will be held virtually on Fridays, **10 am to 11 am**. The Zoom link will always be sent out **the Wednesday before the respective seminar to the BIP listserv!** Interested in giving a BIP talk or signing up to be on the BIP listserv? Email the new BIP Meisters, [Zoha Syed](#) or [Megan Kaster](#).

## Upcoming Events and News



### Northwestern | CHEMISTRY

#### 2020 Charles D. Hurd Lectures

##### **Dr. Rebecca T. Ruck, Executive Director**

Enabling Technologies, Merck Process Research & Development

**Monday, November 9 at 3:00 p.m.**

*"Enabling Technologies for the Green Synthesis of Pharmaceutical Agents at Merck"*

**Tuesday, November 10 at 3:00 p.m.**

*"Science, Women in Chemistry, Advice & More"*

**Virtual: <https://northwestern.zoom.us/j/94932262295>**

Hosted by Professors Freedman and Kalow

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**Eric Bloch**

University of Delaware

**Wednesday, 11 November 2020**

Zoom Presentation: "Gas Storage in  
Porous Coordination Cages"

Please see email announcement for connection information

**3:00 – 4:00 p.m.**

**Hosted by Professor Omar K. Farha**

Contact: Nick Huryk  
farha-ofc@northwestern.edu

**Zoom login Information:**

Link: <https://northwestern.zoom.us/j/93093929438?pwd=OEpHQzZNcStiSitvYmFKNTNZb0VvQT09>

Password: nuchem

Northwestern



NSF-SIMONS CENTER FOR  
QUANTITATIVE BIOLOGY

**3rd Annual Conference on**

**Quantitative Approaches in Biology**

**November 19-21**

This conference is a free three-day virtual event that includes a range of activities to stimulate the cross-fertilization of ideas, professional development, and new collaborations. To register and for more information visit <https://www.qbioconference.com/>

## Job Openings & Recruiting

### Job Opening, University of Southern California

The Department of Chemistry in the Dana and David Dornsife College of Letters, Arts and Sciences at the University of Southern California (Los Angeles, California) invites applicants for a tenure track Assistant Professorship in the areas of physical chemistry, chemical biology and organic chemistry, to start August 16, 2021. Candidates should have a Ph.D. and postdoctoral experience.



The Chemistry Department is highly collaborative and holds diversity, equity and inclusiveness as core values. Candidates that will contribute to the excellence as well as diversity of our academic community are strongly encouraged. We are committed to supporting the family needs of faculty and encourage candidates from non-traditional career paths and those that have demonstrated commitments to advancing diversity and inclusion through their career. Candidates have access to USC Provost's Assistant Professor Fellowship, which can provide additional time, research support and resources to transform their scholarship into extraordinary platforms for their own independent research prior to start of the tenure clock. The Department also offers flexibility in appointment start date. Candidates at any early career stage are encouraged to apply. Candidates should submit their application online at <http://chem.usc.edu/facsearch> with a cover letter, curriculum vitae and a detailed description of their research and teaching plans. In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser: <https://usccareers.usc.edu/job/los-angeles/assistant-professor-of-chemistry/1209/17813341>

A separate statement on contributions and future plans in advancing diversity, equity and inclusion should be provided. The names and addresses of at least three individuals who will provide letters of recommendation will be requested on-line. The committee will begin evaluation of files that include three letters of recommendation on December 1, 2020 and applications will be considered until the position is filled.

### Job Opening, Trinity College

Trinity College is seeking candidates for a tenure-track position in physical chemistry and a second potential tenure-track opening in the areas of organic chemistry or chemical biology at Trinity College. This second position could be made possible by the College's renewed Special Opportunity Hire program, which endeavors to recruit "scholars and teachers of exceptional achievement or promise who will diversify the faculty." Both positions would begin in the fall



2022 semester. The Department of Chemistry at Trinity is committed to recruiting, interviewing and hiring diverse candidates for both positions.

Trinity College is a coeducational, independent, nonsectarian liberal arts college located in Connecticut's capital city of Hartford. Our student body is diverse, coming from all socio-economic, racial, religious, and ethnic backgrounds across the U.S. and internationally. Faculty combine teaching excellence with productive research programs that engage undergraduate students. Trinity College is located in an urban environment and nearby institutions include Hartford Hospital, the Institute of Living, Connecticut Children's Medical Center, and University of Connecticut Medical School. Researchers at these institutions often have active collaborations with Trinity faculty. The Chemistry Department is exceptionally well-equipped for both teaching and research.

The ideal applicants would excel at teaching in their area of expertise and in our introductory courses, and who would establish or continue a productive research program that meaningfully involved undergraduate co-workers. Applications are welcome from graduate students, postdoctoral scholars or established faculty members who, through their research, teaching, and service, would contribute to the diversity and excellence of our academic community.

Applications may be submitted to:

Timothy Curran

Vernon K. Kriebel Professor of Chemistry and Chair Email: [timothy.curran@trinco ll.edu](mailto:timothy.curran@trinco ll.edu)

Telephone: 860-297-5276

## Tenure-track position in biochemistry at Beloit College

**Beloit College invites applications for a tenure track faculty position in biochemistry to begin August 2021.** The successful candidate will hold a Ph.D. in biochemistry or related field and teach courses in biochemistry and general chemistry. Willingness to teach courses in another area of chemistry (analytical, inorganic, or physical) preferred. We especially seek candidates who have demonstrated success in working with diverse populations of students. This position is an excellent opportunity to teach in a department known for innovative pedagogy. The successful candidate will also develop a research program related to some aspect of health, broadly defined, that engages undergraduates. This position places strong emphasis on advising undergraduate students in Biochemistry, Chemistry, and our multidisciplinary Health and Society program. The candidate will also contribute to all-college programs and serve in leadership roles in campus governance. More details can be found here: <https://www.beloit.edu/live/profiles/3870-assistant-professor-of-chemistry>







**Haogang Cai, PhD**  
Assistant Professor  
Health Technology and Engineering Institute  
(Tech4Health)  
NYU Grossman School of Medicine  
New York, NY, 10016

## **Postdoc, PhD positions in Optical Metasurface and Nanophotonics**

A postdoctoral position is available in the Cai Lab, part of the Health Technology and Engineering Institute (Tech4Health) at New York University Grossman School of Medicine (recently ranked # 4 in medical schools by [‘U.S. News & World Report’](#)). We build new paradigms of nanotechnology for biomedical applications, including optical metasurfaces for imaging and sensing, active tunable metasurfaces, and nano-engineered biomimetic materials. Our work has been published in high-impact journals including Nature Nanotechnology, Nature Materials, NPJ Comput. Mater., ACS Nano, Nano Letters, etc. This position is immediately available, and will remain open until filled. The postdoc will receive competitive stipend, and benefits provided by the NYU School of Medicine.

### **Who we’re looking for**

Candidates must have a PhD in engineering (electrical, mechanical, etc), optics, physics, materials science or an appropriate field. Those with expertise in optical metasurfaces (near infrared, visible), nanophotonic/plasmonic sensors, nanofabrication, are encouraged to apply. Those with hands-on cleanroom experience (e.g., e-beam lithography, RIE, SEM), a strong background in optics, optical experiments, and finite-difference time domain (FDTD) simulation are preferred. We seek candidates who are strongly motivated, open-minded, and capable of both independent and collaborative research work. Demonstrated ingenuity, productivity, communication and writing skills, and an excellent record of publications is preferred. We also have PhD student, research associate openings in related fields.

### **How to apply**

To apply, send your CV to Dr. Haogang Cai, at [haogang.cai@nyu.edu](mailto:haogang.cai@nyu.edu). Please include a detailed description of your research interests, a full list of publications, and names of at least two references.

### **Who we are**

The Tech4Health Institute, NYU Langone Health’s Institute for Health Technology and Engineering, is NYU Langone’s research and development hub for new biomedical instruments and technologies. With state-of-the-art facilities in Midtown Manhattan and an advanced rapid-response engineering team, the institute connects engineers and physical scientists with clinicians and life scientists to address key unsolved problems and unmet needs in biomedicine. Immersed in the unique vibrant and innovative environment of the New York City, and one of the foremost medical schools in the world, this is an ideal place for engineering researchers to design technologies improving human health. For more information, visit the lab website at <https://www.cai-labs.com/> and the institute website at <https://med.nyu.edu/departments-institutes/health-technology-engineering/>.

## Tenure Track Position at TCNJ - Info Sessions on 12 November

TCNJ is a public, selective primarily undergraduate institution located between Philadelphia and New York City (both are about an hour away) with an enrollment of approximately 7,000



undergraduates. Their college has earned national recognition for its commitment to excellence, which includes the highest freshman retention rate (94%) and the 7th highest four-year graduation rate (76%) in the northern region of the US. In addition, TCNJ is committed to being an antiracist campus. It houses several faculty and staff affinity groups including the Minority Executive Council, Women's Professional Network, Parenting Network, LGBTQ+ Pride, and Multicultural Greek Affinity Groups.

The chemistry department at TCNJ has a long and consistent track record in the training, teaching, professional development, and mentoring of undergraduates of diverse backgrounds. Although TCNJ is a small institution, over the past ten years they have seen an increasing demand for the chemistry major (currently at 30-35 majors per year), along with changing demographics of their majors (10% from underrepresented groups in mid 2000's to 19% in 2009-2015). Additionally, over the past 15 years, 52% of their chemistry graduates have been women and 24% have come from other underrepresented groups. They continue to see an increase in students of color graduating from the chemistry major (5% in 2004 to 30% in 2019). Their successes in increasing representation of women and students from underrepresented groups are attributed to the development of novel programs and curricula to support *all* students regardless of their backgrounds. They have done this through systemic changes to create more equity in the classroom and research laboratories. While these changes began with faculty grassroots efforts, they are fortunate to now be supported by an Inclusive Excellence grant from the Howard Hughes Medical Institute. The Department has been privileged to receive several capital improvements, including the construction of a new Chemistry building that houses state-of-the-art facilities and instrumentation. As a result of these changes and efforts, significant redesign of their chemistry curriculum has resulted in improvements in course delivery, interest, and learning for students from not only underrepresented groups, but for students of all backgrounds.

Details for their faculty search, the area, TCNJ chemistry, and application details can be found at:

<https://chemistry.tcnj.edu/2020/10/22/assistant-professor-in-chemistry/>

They are hosting informal information sessions on November 12th at 1 pm (Eastern Time) for candidates to learn more about their inclusive teaching practices, resources, and research. They will also answer questions about their current faculty search, departmental resources, and the application process. To receive an event link they request an RSVP by responding to the following survey

<https://forms.gle/LBqjRzKHV81ZqGGj9>. They will follow up with instructions and a link to folks that sign up.

## illumina- Open Position

Illumina is looking for a chemist with experience in surface chemistry, nanoparticle synthesis/characterization, and bioconjugations. Based at our Headquarters in San Diego we require a Scientist to join our Research & Technology Development department as a Materials / Surface Chemist in a permanent role. As part of the Materials and Applied Surface Science group, you will play an integral role in developing new sequencing and array technologies and related applications. As the company moves fast so does the technology we use, the candidate will have to be adaptable to a wide range of techniques and methods used in life-sciences.



Visit [this page](#) for more details and to apply.

## Job announcement: Research Associate/ Group Leader

The Lab Dresden Center for Intelligent Materials (DCIM) is focused on novel materials which, as a central component of intelligent systems, feel, think and act autonomously through integrated sensory and actuator functionalities.



For more details, please refer to the following [announcement](#).

# Northwestern | Chemistry

## Research Assistant Professor for a New Lab Downtown

Dr. Karl Scheidt, a Professor in the Department of Chemistry and Department of Pharmacology at Northwestern University, is seeking a Research Assistant Professor with expertise in chemical and molecular biology for a new translational chemistry laboratory. The Research Assistant Professor will engage in research activities focused on advancing new molecules to understand biological function and expected to pursue independent grants, research and collaborations.

This is non-tenure, research faculty appointment for an initial period of up to three years and eligibility for renewal based on scholarly achievements and available funding. This position will be physically located on primarily on Northwestern's Medical School campus in Chicago, IL.

Only electronic application materials will be accepted. Northwestern University is an equal opportunity, affirmative action employer and does not discriminate against qualified individuals on the basis of race, color, religion, national origin, sex, pregnancy, sexual orientation, gender identity, gender expression, parental status, marital status, age, disability, citizenship status, veteran status, genetic information, or any other protected class. Individuals from all diverse backgrounds are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

Applications should be submitted via email and sent to [scheidt-ofc@northwestern.edu](mailto:scheidt-ofc@northwestern.edu). Please include a cover letter detailing your research experience, CV, three representative publications, and contact information for three references. Review of applications will begin immediately.

**Minimum Qualifications: (Education and experience)**

- Doctoral degree in the area of chemical biology/molecular biology/biological sciences or a related field of study with at least 2 years of relevant postdoctoral experience.
- Strong publication record and proven potential for independent extramural funding.

**Minimum Competencies: (Skills, knowledge, and abilities)**

- Strong interpersonal and communication skills and a desire to engage in team-based research and collaboration are necessary.
- Working knowledge of chemistry is essential to integrate effectively with translational chemistry projects at the University and within Dr. Scheidt's laboratory.
- Strong writing skills demonstrated through authorship of publications or independent grant research awards.
- Highly motivated and able to manage multiple projects and keep pace in a dynamic research environment.

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Do you have news or opportunities to share in the Weekly Bulletin?  
Please email them to Morgan Eklund at [morgan.eklund@northwestern.edu](mailto:morgan.eklund@northwestern.edu)

For an archive of the Department of Chemistry's Weekly Bulletins, please visit: [Bulletin Archive](#)