

WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN
UNIVERSITY
EVANSTON, ILLINOIS
October 19, 2020

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New Arrivals

Michael De Siena (Postdoc) joined the Kanatzidis Group

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

Postdoc Academy at Northwestern

Come join the more than 3000 postdocs nationwide who have already participated in the [Postdoc Academy](#)!

The Postdoc Academy is a digital and in-person professional development program designed specifically for postdocs, and is now open for registration! The free online course, titled "Succeeding as a Postdoc", will begin on October 19th. This 6-week



course will help you create a rewarding experience that launches you into your chosen career path. **Register for the online course [here](#).** You can also find outcomes of the prior running of the course [here](#).

In addition to the online course, you can join a Postdoc Academy Learning Session (PALS), based on either discipline or location. Virtual local learning communities support online learning by connecting content directly to the local context and community, and also promote deeper learning of the material. PALS are small groups of postdoc who meet once a week in Zoom while taking the online course. **PALS will begin the week of October 19th! Register for PALS [here](#).** This October, Postdoc Academy is introducing a new concept - discipline-focused learning communities. If you participate you can connect with postdocs around the world.

These are extraordinarily difficult times - from the systemic racism and anti-blackness within our society to the proclamations that limit international citizens from entering or remaining in the US to the long-lasting impacts of the ongoing COVID-19 pandemic. Postdocs everywhere have all returned and are working hard in their research, and we acknowledge that many of you may be in difficult environments. A course that provides professional development around *Resilience, Working in an Intercultural Environment, and Career Planning* can support you now with important and timely skill development.

Register for the online course [here](#).

NCA: Navigating Virtual Conferences and Approaches to Online Networking for PhDs

October 21 @12:00PM CT

Join to discuss networking strategies in virtual spaces, with particular emphasis for how to prepare for virtual events this year. NCA's PhD career adviser will provide some strategies and advice on best practices, and leave time for a larger discussion of questions from participants. See event details and the registration link in Handshake.

Panel discussion: Making the connection between voting and climate change

Wednesday, October 21, 2020

2:00 PM - 3:00 PM

Join the moderated panel discussion in recognition of [Global Climate Change Week](#) (Oct. 19 – 25). Hosted by ISEN, CESR, and sustainNU, the discussion will focus on educating attendees and promoting greater awareness on how their vote can effect change and positively influence climate action and environmental progress. Register [here](#).

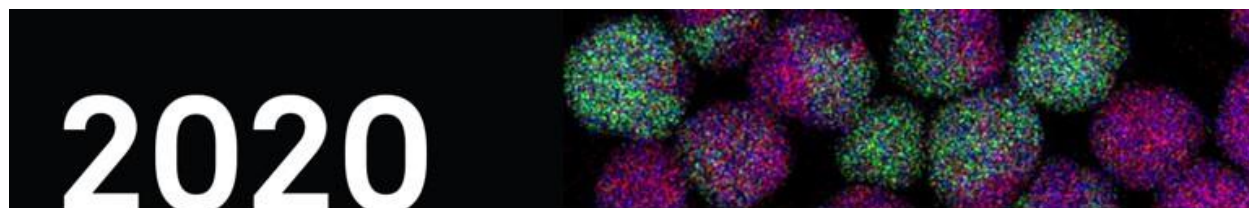
Chemistry and Engineering Approaches to Close the Loop on Elastomers

Thursday, Oct. 22, 12-1 pm (Central Time)

Register [here](#)

Join the Program on Plastics, Ecosystems, and Public Health at the Institute for Sustainability and Energy at Northwestern University (ISEN) for this exclusive virtual seminar. Space is limited

Speakers: **Julia Kalow**, Assistant Professor of Chemistry and **Jeffrey Richards**, Assistant Professor of Chemical and Biological Engineering



International Institute for Nanotechnology Virtual Symposium
Thursday, Oct. 29 • 10:00 a.m. to 2:50 p.m. (CT)

Hosted by Chad A. Mirkin, this event will explore the frontiers of science — from the exceedingly small to the mind-bogglingly large.

The IIN Symposium is designed for students, researchers, executives, and lay people who are interested in groundbreaking scientific discoveries and interdisciplinary research. There is no cost to attend, but advance [registration](#) is required. Register today and a link to join the virtual symposium will be sent to you by email on the day of the event.

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

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](#).



TEXAS TECH UNIVERSITY

About Texas Tech University

Located in Lubbock, Texas, Texas Tech University is a state-supported National Research University Hispanic Serving Institution (HSI) with a Carnegie R1: Highest Research Activity classification. It has an enrollment of more than 40,000 students and is one of the major multidisciplinary universities in the Southwest. The Lubbock metropolitan area is home to more than 250,000 people and features sunny weather and affordable housing.

Texas Tech seeks to fill the following tenure track faculty positions within the College of Arts & Sciences:

Assistant Professor in Chemistry & Biochemistry

The Department of Chemistry & Biochemistry at Texas Tech University invites applications for a tenure-track faculty position at the Assistant Professor level. This position will be in the area of **organic chemistry**, broadly defined. Areas of research interest could include bioorganic/medicinal, synthesis/catalysis, and polymer chemistry. A Ph.D. in chemistry or a related field is required, with postdoctoral experience preferred. The successful candidate is expected to develop an independent, well-funded research program and have a commitment to excellence in teaching at the undergraduate and graduate levels. Candidates who have very strong records of scholarship supported by extramural funding and who have the proven capacity or clear potential to bring externally sponsored research to Texas Tech University are encouraged to apply. Experience working with diverse student populations and first-generation students is highly desirable. Service duties include program-building, as well as commitment to extra-curricular activities. Service to the department, college, and university is expected.

All applications must be submitted online. Online application can be made at <http://www.texastech.edu/careers/>. Applications must include a curriculum vitae, a statement of current and proposed research, a statement of diversity and inclusion, and a teaching philosophy. Applicants must also arrange to have three confidential letters of recommendation sent on their behalf to **Faculty Search Committee, Department of Chemistry & Biochemistry, Texas Tech University, Box 41061, Lubbock, TX 79409-1061** (chemistry@ttu.edu). Evaluation of applications will begin on October 30, 2020 and continue until the position is filled.

As an Equal Employment Opportunity/Affirmative Action employer, Texas Tech University is dedicated to the goal of building a culturally diverse faculty committed to teaching and working in a multicultural environment. We actively encourage applications from all those who can contribute, through their research, teaching, and/or service, to the excellence and diversity of the academic community at Texas Tech University. The university welcomes applications from minorities, women, veterans, persons with disabilities, and dual-career couples.

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. 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.

Joint Postdoctoral Opportunity in Agapie-Peters LiSA Team at Caltech

Two postdoctoral positions are available for a joint project targeting CO₂ conversion to liquid fuels which is part of LiSA (Liquid Sunlights Alliance, <https://www.liquidsunlightalliance.org>).

Potential candidates can contact Theodor Agapie directly.

Theodor Agapie
Professor of Chemistry
Department of Chemistry
California Institute of Technology
<http://agapie.caltech.edu>
agapie@caltech.edu

Tenure-Track Position Opening in Chemistry at Berea College

<https://myberea.csod.com/ats/careersite/JobDetails.aspx?site=3&id=774>

Founded in 1855, Berea College achieved national distinction as the first coeducational and interracial college in the South. Berea has a longstanding commitment to interracial education, and is one of the most racially diverse private liberal arts colleges in the United States. With an emphasis on service to Appalachia and beyond, Berea enrolls 1,650 students from 43 states and U.S. territories and 76 countries.



Berea College only admits students who are unable to afford tuition and provides all of them a no-tuition promise, valued at more than \$178,000 over four years. Berea's students excel in the College's supportive yet demanding academic environment, and many are the first in their families to graduate college. As one of nine federally recognized Work Colleges, all Berea students hold a position in which they work 10-12 hours weekly. Washington Monthly ranked Berea College No. 1 as the Best National Liberal Arts College in 2016, 2017, 2018, and the No. 1 College in the country in terms of affordability from 2016 to 2019. Berea's recognition comes from success in educating and graduating academically talented, low-income students who become service-oriented leaders in their professions and communities.

Located where the Bluegrass Region meets the Cumberland Mountains, the town of Berea (pop. 16,000) lies forty miles south of Lexington and is approximately two hours from Cincinnati, Louisville, and Knoxville. More information about Berea College is available at www.berea.edu.

Four Chemistry Faculty Positions at University of Texas at El Paso

Assistant Professor-Chemical Education

<https://utep.interviewexchange.com/jobofferdetails.jsp?JOBID=123969&CNTRNO=7&TSTMP=1601053689340>

Assistant Professor Chemistry (Energy)

<https://utep.interviewexchange.com/jobofferdetails.jsp?JOBID=125096>

Assistant Professor Chemistry-Health, Human Disease, and Diagnostics

<https://utep.interviewexchange.com/jobofferdetails.jsp?JOBID=125105>

COS Environmental Chemistry 20-06

<https://utep.interviewexchange.com/jobofferdetails.jsp?JOBID=125093>



Postdoctoral Research Position at PNNL

Pacific Northwest National Laboratory is looking for a postdoc to join the Catalysis Science group. The research will focus on designing molecular capture agents to remove carbon dioxide from air. Experience with molecular electrochemistry, especially cyclic voltammetry and controlled potential electrolysis, is preferred.

Applicants can apply for job ID 311210 by **October 19** at: <https://careers.pnnl.gov/JobOpeningID=311210>



ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY and BIOCHEMISTRY (9-month, Tenure Track appointment)



Samford University's Howard College of Arts and Sciences invites individuals interested in serving in a Christian university environment to apply for an assistant professor position (biochemistry) in the Department of Chemistry and Biochemistry, beginning August 2021. This tenure-track full-time faculty position is a 9-month appointment.

Qualified candidates will hold a Ph.D. degree in biochemistry or chemistry. Postdoctoral research and/or teaching experience is desirable. Primary teaching responsibilities will be in biochemistry, with additional duties in general or nursing chemistry. The successful applicant

will be expected to develop an active research program in biochemistry (broadly defined) involving students. Start-up funds are available along with support for summer research students. Collaborative research opportunities are also available at the University of Alabama at Birmingham and Southern Research Institute (in Birmingham). The successful applicant will be expected to participate in various service activities in the department, college and larger university community.

The department currently comprises eight full-time faculty members, offers majors in chemistry and biochemistry, and graduates about ten majors per year. For more information, see the department web page: <https://www.samford.edu/arts-and-sciences/chemistry-and-biochemistry/>.

Samford University (www.samford.edu) is the largest privately supported and fully accredited institution for higher learning in Alabama. Located in suburban Birmingham, the University was founded in 1841 and has 425 full time faculty and more than 5,600 students representing 44 states and 30 countries. Samford has been nationally recognized for academics, affordability and value by a number of prestigious publications and rankings. The Wall Street Journal ranks Samford 3rd nationally for student engagement and Kiplinger's Personal Finance ranks Samford 34th among private universities in the U.S. for value and affordability. The University is dedicated to the promotion of rigorous academic inquiry in a Christian setting. The University offers competitive salaries with a generous benefits package.

*Review of applications will begin October 1, 2020 and will continue until **October 19, 2020**.*

Please submit an application letter, curriculum vitae with names and contact information of three references, description of teaching experience, description of research interests and activities, along with an application for faculty position and the faculty applicant Christian mission statement (links below).

"Application for Faculty Position" can be found at:

https://www.samford.edu/departments/files/Human_Resources/application-for-faculty-employment.pdf

Please submit all materials in PDF format to:

FACAPP@Samford.edu

ATTN: Chemistry Department Chair

Full Time Chemist Position at O2M

O2M expects to have an opening for an Organic Chemist (Application Scientist) soon. The New-hire will establish a chemistry lab and perform complex synthesis of trityl radicals as described in the attached article. The level of expertise needed can be achieved with approx. 8-10 years of experience (PhD + 2-3 years of post-doc experience) in synthetic organic chemistry. The position will be located at O2M lab residing in UIC incubator facility, however the new-hire will work in close coordination with the group of Prof.

Viresh Rawal at the University of Chicago dividing time between O2M and the University of Chicago efficiently. Please submit a cover letter, current CV, contact details of 3 references, and pdfs of 2 relevant publications. The eligibility to work in the USA is a must. O2M will also have a



position of chemistry technician open in coming months.

Submit materials to:
Mrignayani Kotecha, PhD
Founder/CEO
O2M Technologies, LLC
[Email: mkotecha@o2map.com](mailto:mkotecha@o2map.com)

Post-doctoral Position open at University of Florida

<https://facultyjobs.hr.ufl.edu/posting/78553>

A Post-doctoral Associate position is available in the Department of Chemistry to work in a project on the Catalytic Synthesis of Cyclic Polymers led by Prof. Adam S. Veige in Chemistry. We have a position available in our group to work with industrial partners on (1) the application of our novel catalysts for the synthesis of commercially relevant cyclic polymers, and (2) the optimization, development, and characterization of new organometallic complexes for ring expansion polymerization for the production of cyclic polymers. The Veige group particularly welcomes applicants who can contribute to a diverse and inclusive environment through their scholarship, teaching, mentoring, and professional service. Please see <https://diversity.clas.ufl.edu/diversity-statement/> for more information about diversity and inclusion in the College of Liberal Arts and Sciences. The university and greater Gainesville communities enjoy a diversity of cultural events, restaurants, year-round outdoor recreational activities, and social opportunities.



Open Position: Eastern Illinois University, College of Liberal Arts and Sciences Instructor of General Chemistry

The Department of Chemistry & Biochemistry at Eastern Illinois University invites applications for a one-semester position: Instructor of General Chemistry. Duties begin in January, 2021. A Ph.D. in chemistry or a closely related field is preferred. Teaching duties will include general chemistry lecture and lab courses, as well as Inorganic Chemistry I lecture. An ability to teach major courses outside of the organic or biochemistry areas would be valued, and demonstrated commitment to diversity and experience promoting inclusive excellence is required. Applicants should email a cover letter and current [CV](#) to Dr. Edward M. Treadwell at emtreadwell@eiu.edu, and should include the names and contact information of three references.

Application review begins **October 19, 2020** and will continue until the position is filled. For additional information, contact Dr. Edward M. Treadwell (Department Chair) at emtreadwell@eiu.edu.

Information on our Department can be found at www.eiu.edu/eiuchem, and about the university at www.eiu.edu.

Eastern Illinois University is an Affirmative Action/Equal Opportunity Employer - minority/female/disability/veteran - committed to achieving a diverse community





Research Scientist, Medicinal Chemistry

At Gilead, we strive to transform the promise of science and technology into therapies that have the power to cure, prevent or treat disease. We have worked tirelessly to bring forward medicines for life-threatening diseases in the areas of HIV, AIDS, liver diseases, hematology and oncology, and inflammation and respiratory diseases. The way we see it, the impossible is not impossible. It's simply what hasn't been achieved yet. This is how we built a culture of excellence that is fueled by a passion for improving lives of people around the world. We are growing a diverse team of professionals and we need your unique talents, expertise and background to help millions of people around the world live healthier.

Job Description:

As Research Scientist you will have the responsibility to design and execute the synthesis of novel molecules within a multi-disciplinary drug discovery team. The proposal of new molecular targets, application of scientific rigor, and application of creative solutions to challenging problems are essential skills. The successful candidate will have an excellent track record and a commitment to tackling drug discovery challenges through organic synthesis. Preference will be given to individuals with excellent leadership skills and a strong desire to succeed.

Qualifications:

- Ph.D. in Organic Chemistry with an emphasis on synthetic methodology or total synthesis.
- Exceptional synthetic skills and knowledge of modern organic synthesis techniques.
- Strong written and oral communication skills with a high-impact publication record.
- Desire to work in multi-disciplinary teams, learn new skills, and proactively solve problems.



To apply, please email your CV and a short research summary to: jenna.franke@gilead.com

Research Associate, Medicinal Chemistry

At Gilead, we strive to transform the promise of science and technology into therapies that have the power to cure, prevent or treat disease. We have worked tirelessly to bring forward medicines for life-threatening diseases in the areas of HIV, AIDS, liver diseases, hematology and oncology, and inflammation and respiratory diseases. The way we see it, the impossible is not impossible. It's simply what hasn't been achieved yet. This is how we built a culture of excellence that is fueled by a passion for improving lives of people around the world. We are growing a diverse team of professionals and we need your unique talents, expertise and background to help millions of people around the world live healthier.

Job Description:

As a Research Associate, you will join a cross-functional research team whose goal is to discover curative medicines for life-threatening diseases. With state-of-the-art research facilities and a team of experienced scientists who are passionate about discovering drugs, the Medicinal Chemistry group at Gilead empowers every chemist to take part in the act of invention. In a 1:1 reporting structure, Research Associates collaborate with their scientific mentor to design and efficiently synthesize molecular targets for evaluation as potential drug candidates. In addition to developing custom syntheses, you will be responsible for generating molecular designs by interpreting and integrating biological data. Interactions with colleagues in biology and other disciplines offer new avenues for development and are facilitated through team meetings where all levels of the department join discussions and contribute ideas.

Responsibilities and Skills:

- Conduct multi-step synthetic sequences toward key target molecules, using appropriate purification and compound characterization techniques
- Maintain a high level of scientific integrity and laboratory safety
- Apply independent thinking to resolve synthetic and chemical biology challenges
- Analyze and accurately record data using Electronic Laboratory Notebooks
- Participate in and present results at team meetings
- Demonstrate good verbal and written communication and interpersonal skills

Qualifications:

- BS or MS degree in Organic Chemistry including synthetic chemistry research experience
- Experience with multi-step synthetic organic chemistry
- Familiarity with modern chromatographic and analytical techniques, including flash chromatography, HPLC, LCMS and NMR
- Familiarity with ChemDraw and literature searching software (SciFinder or Reaxys)
- Strong desire to work in multi-disciplinary teams, learn new skills and proactively solve problems



To apply, please email your CV and a short research summary to: jenna.franke@gilead.com

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

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