

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

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

Arrivals

Elisa Trippodo joined the Facchetti Group
Bowe Zhang joined the Odom Group

BIP

BIP is on summer vacation and will resume in the fall.

Announcements

WAZAPALOOZA: The 70th birthday celebration for Professor Michael Wasielewski will be on Friday September 20th and September 21st. Presented by the NU Chemistry Department and LEAP (Center for Light Energy Activated Redox Processes) the two day event will celebrate all things Waz and host a series of seminars.

For more details and the full schedule please visit: www.wazapalooza2019.com
Contact Amanda Mahoney at Wasielewski-ofc@northwestern.edu for more information or visit PlanItPurple <https://planitpurple.northwestern.edu/event/553317>

Opportunities

The Department of Chemistry and Biochemistry at the University of Delaware (<https://www.chem.udel.edu/>) **in the College of Arts and Sciences** seeks a Tenure Track Assistant Professor with a concentration in *Inorganic Chemistry*, broadly defined. We encourage applications from highly creative individuals that seek to establish an externally funded, vibrant research program focused on the synthesis and/or study of inorganic complexes or materials. Individuals pursuing research that include aspects of organometallic chemistry, or who plan to work at the interface of inorganic and biological chemistry are also encouraged to apply. The successful candidate will have a PhD in chemistry or a related field, a distinguished record of scholarship and research accomplishment, and the potential for excellence in teaching of inorganic chemistry related courses at both the undergraduate and graduate levels.

Founded in 1743, the University of Delaware is situated less than an hour from Philadelphia, PA, and is within easy driving distance of New York City and Washington, D.C. UD is a Land Grant, Sea Grant, Space Grant, and Carnegie Research University with external funding exceeding \$200 million per annum. UD's growing campus currently enrolls approximately 18,000 undergraduate and 4,000 graduate students and combines a rich historic legacy with a strong commitment to education and innovation. Within the Department of Chemistry and Biochemistry, the successful candidate will benefit from a highly supportive and collaborative environment that supports a wide array of cutting-edge Core Facilities, and sports several dynamic research centers that are focused on driving advancements in fields such as chemical catalysis, energy innovation, materials design, drug discovery and biopharmaceutical development, and data science, among many others.

TO APPLY: Review of applications will begin on October 15, 2019 and will continue until the position is filled. Applicants should upload a letter of application, curriculum vitae, description of initial research plans, statement of teaching philosophy and contact information for three references at <http://www.udel.edu/careers>. For additional information, please contact Ms. Susan Cheadle at: sheadle@udel.edu.

The Department of Chemistry and Biochemistry at Baylor University invites applications for the position of Assistant Professor in Chemistry. Applicants will be evaluated based on their potential for developing an internationally-recognized, externally-funded research program and aptitude for excelling as a teacher at both the undergraduate and graduate levels. Salary is commensurate with experience and qualifications.

Qualifications

Applicants should have established expertise in the general area of Organic Chemistry, possess a doctorate (Ph.D. or equivalent degree) in Chemistry, and be able to begin August 2020. Special consideration will be given to candidates who have completed postdoctoral studies and have plans to perform research at the interface of synthetic organic chemistry, biology, and medicine.

Application Instructions

Applicants should submit a cover letter, curriculum vitae, a description of research plans (6-8 pages), and a statement of teaching interests and philosophy (1-2 pages) and a copy of an official transcript showing the highest degree conferred (if the Ph.D. is in progress, a copy of the official transcript of completed Ph.D. hours should also be submitted). Candidates should arrange for 3 letters of recommendation to be submitted on their behalf. Evaluation of applications will begin on October 14 and continue until the position is filled.

<https://apply.interfolio.com/67124>

The Chemistry Department at Saint Francis University invites applications for a tenure-track faculty position beginning August 2020. Strong applicants in all chemistry disciplines are encouraged to apply, but candidates with interests in forensic chemistry or fermentation chemistry are preferred. Teaching responsibilities include course work and laboratories in the areas of general chemistry and allied health chemistry. Opportunities to teach and perform research with undergraduate students in the field of the candidate will also be available.

The successful candidate must have a Ph.D in chemistry, post-doctoral research experience (preferred), experience in equipment maintenance (preferred), and a commitment to excellence in chemical education in the classroom and in the research laboratory. The Chemistry Department shares a 73,000 sf Science Center with dedicated research space. Departmental resources include 2 NMR spectrometers, FTIR-ATR, GC-MS, HPLC, glove box, cold room, and AFM.

Apply on line at <http://francis.edu/employment>, then submit a letter of application, Curriculum Vitae, teaching philosophy, research statement, and names, addresses, and phone numbers of three references to: positions@francis.edu.

Review of applications will begin early October with phone and on-campus interviews planned for October through December. Saint Francis University is a liberal arts institution, located in Loretto, PA about a 30-minute drive from Altoona, PA and Johnstown, PA.

Saint Francis University is committed to diversity of students, staff, and faculty, and encourages applications from historically underrepresented individuals, women, veterans, and persons with disabilities. AA/EOE

Miami University Oxford, Ohio Department of Chemistry & Biochemistry: Tenure-track Assistant Professor in Bioanalytical Chemistry to begin August 2020 to teach undergraduate and graduate level courses in analytical and general chemistry; direct undergraduate and doctoral students in a nationally-recognized externally-funded research program; provide service to the institution. Required: Ph.D. and postdoctoral experience in chemistry, biochemistry or related discipline. Consideration may be given to those with research areas that complement the strengths of the department. Submit letter of interest, curriculum vitae, statement of research plans, and provide the names of three references to: <http://jobs.miamioh.edu/cw/en-us/job/495678>. For inquiries about posting, contact Gary Lorigan at gary.lorigan@miamioh.edu. Screening of applications will begin October 2, 2019 and will continue until the position is filled.

The Department of Chemistry at High Point University invites applications for two (2) tenure-track positions at the Assistant Professor rank with a start date of January or August 2020. The first is for a candidate with expertise in biochemistry and the second will specialize in analytical / environmental chemistry with preferred expertise in mass spectrometry and chromatography. Teaching responsibilities for the biochemist will include introductory and specialty courses in biochemistry and chemical biology and the analytical/environmental chemist will be expected to teach foundation courses in analytical and/or organic as well as advanced courses in their discipline. Both positions are expected to teach introductory courses in chemistry and potentially general education courses for non-science majors. In addition, successful candidates are expected to develop an active research program involving undergraduates. The department supports B.S. degree programs in chemistry and biochemistry with a significant number of students preparing for careers in the health professions. Successful applicants will have access to startup and institutional research funds, laboratory, and office space in the newly completed \$65M Wanek School of Natural Sciences. High Point University, named the South's number one "up and coming schools" and number one in "undergraduate teaching", is in the midst of an exciting academic and cultural transformation, including the University's launch of new programs in the health professions and engineering.

A Ph.D. in chemistry, biochemistry or closely-related field is required and postdoctoral experience is strongly preferred. Follow the links to apply for the [biochemistry position](#) or the [analytical/environmental position](#). Application materials should include a letter of application, curriculum vitae, statements of teaching philosophy and a brief statement of research interests uploaded online. The candidate should also have three letters of recommendation sent to Dr. Brian Augustine, Search Committee Chair, Drawer 19, High Point University, One University Parkway, High Point, NC, 27268 or inquiries can be made by email at baugusti@highpoint.edu.

Candidates who have earned the Ph.D. within the past five years should also provide undergraduate and graduate transcripts (copies of official transcripts are acceptable). Review of applicants will begin after October 15, 2019. High Point University is an equal opportunity employer.

Apply Here:

[Assistant Professor Biochemistry](#)

[Assistant Professor Analytical/Environmental](#)

Soka University of America (SUA) seeks to fill a position for a full-time tenure-track Professorship (Open-Rank) in Biochemistry beginning August 2020. The successful candidate will demonstrate their ability to excite and interest students in small classroom and laboratory settings and to develop a productive program of research and scholarship. This position will support SUA's new Concentration in Life Sciences and Pre-Health Program housed in a new state-of-the-art science teaching and research facility. The teaching responsibilities of this position include developing and teaching new biochemistry and interdisciplinary classroom and/or laboratory courses for these programs. In addition, the faculty member may develop and teach courses designed for students not concentrating in Life Science that meet

the General Education course requirements in Biological Science or Physical Science. All faculty members also teach at least one course in SUA's cross-disciplinary General Education curriculum (Core, Modes of Inquiry, or Learning Cluster; for course descriptions, see our catalog at www.soka.edu). All courses should engage students via project-based and active learning approaches suitable for small class sizes. The teaching load per academic year is five courses.

SUA is a selective four-year institution offering a challenging B.A. in the liberal arts. The university is committed to cross-disciplinary education and aims to foster close intellectual relations between faculty and students through mentorship. An appreciation of the centrality of peace, freedom and human rights to the happiness of the individual and the world provides the founding impetus for the university and its mission. SUA is open to students of all nationalities and beliefs and is committed to diversity in its academic community. About half of SUA students have come from the US, and half have come from over 45 other countries.

Qualifications: Applicants from all fields of biochemistry are welcome with preference for interdisciplinary researchers in fields relevant to our new life sciences concentration, which is designed to prepare students for careers in biology, medicine, and public health. Applicants must hold a Ph.D. in Biochemistry or an appropriate area, and preferably will have postdoctoral experience. Applicants should be versatile enough to teach outside their area of specialization, such as organic chemistry or other chemistry courses, and will have demonstrated excellence in teaching and research.

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

Deadline for applications: Review of applications will begin on October 1st, 2019 and continue till the positions are filled. Applicants should submit a letter of application, curriculum vitae, a one to two-page statement of teaching philosophy (which should also address how the candidate would fulfill the teaching responsibilities described above), evidence of teaching effectiveness, a one-page statement of research interests and three confidential letters of recommendation to be addressed to Bryan Penprase, Ph.D., Dean of Faculty and submitted directly from referees through the Interfolio platform. Employment is contingent on the completion of a successful background check.

Please apply by clicking on this link: <https://apply.interfolio.com/65303>

Email: facultyrecruiting@soka.edu

Soka University of America (SUA) seeks to fill a position for a full-time tenure-track Assistant Professor in Biochemistry beginning August 2020. The successful candidate will demonstrate their ability to excite and interest students in small classroom and laboratory settings and to develop a productive program of research and scholarship. This position will support SUA's new Concentration in Life Sciences and Pre-Health Program housed in a new state-of-the-art science teaching and research facility. The teaching responsibilities of this position include developing and teaching new biochemistry and interdisciplinary classroom and/or laboratory courses for these programs. In addition, the faculty member may develop and teach courses designed for students not concentrating in Life Science that meet the General Education course requirements in Biological Science or Physical Science. All faculty members also teach at least one course in SUA's cross-disciplinary General Education curriculum (Core, Modes of Inquiry, or Learning Cluster; for course descriptions, see our catalog at www.soka.edu). All courses should engage students via project-based and active learning approaches suitable for small class sizes. The teaching load per academic year is five courses.

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Qualifications: Applicants from all fields of biochemistry are welcome with preference for interdisciplinary researchers in fields relevant to our new life sciences concentration, which is designed to prepare students for careers in biology, medicine, and public health. Applicants must hold a Ph.D. in Biochemistry or an appropriate area, and preferably will have postdoctoral experience. Applicants should be versatile enough to teach outside their area of specialization, such as organic chemistry or other chemistry courses, and will have demonstrated excellence in teaching and research.

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

Deadline for applications: Review of applications will begin on October 1st, 2019 and continue till the positions are filled. Applicants should submit a letter of application, curriculum vitae, a one to two-page statement of teaching philosophy (which should also address how the candidate would fulfil the teaching responsibilities described above), evidence of teaching effectiveness, a one-page statement of research interests and three confidential letters of recommendation to be addressed to Bryan Penprase, Ph.D., Dean of Faculty and submitted directly from referees through the Interfolio platform. Employment is contingent on the completion of a successful background check.

Please apply by clicking on this link: <https://apply.interfolio.com/65338>

Email: facultyrecruiting@soka.edu

The Department of Chemistry and Biochemistry at Auburn University invites applications for a tenure-track, nine-month position at the Assistant Professor rank. Auburn University is an institution that is both highly research-active and committed to maintaining teaching excellence as one of the nation's premier land, sea, and space grant institutions. With this position, the department is looking to fill research needs in inorganic/organometallic chemistry; candidates who can augment the department's research initiatives in chemical biology are particularly encouraged to apply. The successful candidate is expected to develop a vigorous, externally funded research program. In addition, the successful candidate must demonstrate a commitment to promoting a diverse and inclusive scholarly environment in teaching, research, mentoring, and service. Duties also include teaching at both the undergraduate and graduate levels.

For more information about the College of Sciences and Mathematics and the Department of Chemistry and Biochemistry, please refer to our website: <http://www.auburn.edu/chemistry>.

Minimum Qualifications

Minimum qualifications include excellent written and interpersonal communication skills. In addition, a Ph.D. in chemistry, biochemistry, or a closely related field and at least one year of postdoctoral experience are required at the time employment begins. The selected candidate must also meet eligibility requirements to work in the U.S. on the date of appointment (August 2020) and must be able to continue working legally for the proposed term of employment.

All applicants should submit a cover letter, curriculum vitae, a detailed statement of research plans and a two-page statement of teaching philosophy which highlights a commitment to diversity and inclusion in higher education. The applicant will also need to provide the names and contact information of three professional references.

Review of applications will begin October 31, 2019 and continue until the position is filled.

<https://aufacultypositions.peopleadmin.com/postings/3805>

Department of Chemistry Stanford University: The Department of Chemistry at Stanford University invites applications for a tenure-track Assistant Professor in Chemistry. Stanford Chemistry faculty address the most important questions of the 21st century by leveraging cross-disciplinary synergies to revolutionize scientific knowledge, educate future leaders, and build a collaborative scholarly community that advances fundamental chemistry and helps us to solve our increasingly complex health, energy, and environmental challenges.

Candidates from all sub-disciplines are encouraged to apply. Areas of interest include but are not limited to organic, inorganic, physical, biophysical, or theoretical chemistry. Applicants will be expected to teach courses at both the graduate and undergraduate levels.

Applicants must post a cover letter, a curriculum vitae that includes a list of publications, a teaching statement and a statement of current and future research interests, along with three reference letters. All materials must be submitted electronically to Academic Jobs Online. The committee will begin reading applications on October 1, 2019, but may consider files received after this date. Interested individuals should apply online to:

Please submit to: AcademicJobsOnline <https://academicjobsonline.org/ajo/jobs/14118>

The appointment will begin on September 1, 2020. Email inquiries and questions may be directed to Amy Rutherford (amy ruth@stanford.edu) or by mail to Faculty Search, Chemistry Department, 333 Campus Drive, Stanford, CA 94305-5080.

Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other characteristic protected by law. Stanford also welcomes applications from others who would bring additional dimensions to the University's research, teaching and clinical missions.

The Department of Chemistry & Biochemistry at Eastern Illinois University invites applications for a tenure-track assistant professor of Analytical Chemistry starting in August 2020. A Ph.D. in chemistry or a closely related field is required, with post-doctoral experience preferred. Teaching duties will include undergraduate and graduate (MS) courses in analytical chemistry, as well as general chemistry/general education courses. Individuals who are qualified to teach courses in both analytical chemistry and another area of chemistry are especially encouraged to apply. Establishment of an active externally funded research program with undergraduate and MS students and participation in department and university service activities are expected. Teaching may include traditional, hybrid, and/or online modes of delivery/instruction. Demonstrated commitment to diversity and experience with promoting inclusive excellence is required. Applications must be submitted to Interfolio at <http://apply.interfolio.com/65256>. A [complete application includes a cover letter, CV, statement of teaching philosophy \(including experiences in and plans for promoting diversity and inclusiveness\), proposed research plans, graduate & undergraduate transcripts](#). Applicants must also arrange for three letters of recommendation to be uploaded by recommenders to the same link.

Application review begins September 16, 2019 and will continue until the position is filled. Inquiries may be directed to Dr. Zhiqing Yan, Search Committee Chair, at zyan@eiu.edu.

Memorial Sloan Kettering Cancer Center (MSK) seeks innovative individuals for tenure-track positions at the Assistant Member or Associate Member level, or tenured positions at the Member (Professor) level, with strong research accomplishments in organic chemistry or chemical biology and interests in bringing chemical approaches to bear upon problems at the interface with biomedical research, including basic and translational research and across all disease areas. MSK offers a unique and

collaborative scientific environment, exceptional research facilities and resources, and generous startup packages.

Faculty are eligible to hold appointments in and to recruit graduate students from the Tri-Institutional PhD Program in Chemical Biology, Tri-Institutional MD-PhD Program, Gerstner Sloan Kettering Graduate School of Biomedical Sciences, and Weill Cornell Graduate School of Medical Sciences. The first two programs are operated jointly with Weill Cornell Medical College and the Rockefeller University.

Applicants must have a PhD degree in chemistry, biochemistry, chemical biology, or a closely related discipline, a strong track record of scientific achievement, and dedication to problems at the interface of chemistry and biology. Senior applicants must also have a strong history of successful mentorship and extramural funding. Women and minority candidates are strongly encouraged to apply. MSK is an equal opportunity and affirmative action employer committed to diversity and inclusion in all aspects of recruiting and employment.

Application Deadline: October 15, 2019. Interested candidates should visit <https://facultysearch.ski.edu> to access the on-line faculty application. Please visit the site as soon as possible, as it contains important information on the required application materials, including deadlines for submission of letters of reference. Inquiries may be sent to Jocette Marquez, Program Coordinator at marquezj@mskcc.org or to Prof. Derek Tan, Chairman, Chemical Biology Program at tand@mskcc.org.

The Department of Chemistry at Washington University in St. Louis seeks to make one faculty appointment to begin in the fall of 2020. This is an open search and applicants with expertise in all areas of chemistry are encouraged to apply (for areas of current research, see: <https://chemistry.wustl.edu/research>). The position is at the tenure-track assistant-professor level, but exceptional candidates at a more senior level will be considered. The expectations for the position includes directing a research program that is internationally recognized for excellence (as reflected by independent publications, external grant support, and invited lectures), providing outstanding educational opportunities for students at all levels (efforts that include both teaching assigned courses and advising), and participating in appropriate university and community service. Candidates must have a Ph.D. or equivalent doctoral degree in the field of chemistry or a closely related field at the time of appointment.

Applicants must apply at <http://apply.interfolio.com/65011>. Applications should consist of a cover letter, curriculum vitae, 2-3 concise research proposals (each ~2-3 pages in length), and a brief teaching statement (~1 page or less). We also welcome submission of an optional diversity statement that describes values, experiences, and plans relevant to attaining inclusive excellence in research, teaching, and service (~1 page or less). These documents are to be submitted in *electronic form* as PDF (portable document format) files. Applicants should also arrange for three letters of reference to be uploaded to Interfolio.

Completed applications for the position must be received by 01 October 2019 to ensure inclusion in the initial review. However, applications received later will also be considered until the search is concluded.

Washington University in St. Louis is committed to the principles and practices of equal employment opportunity and especially encourages applications by those underrepresented in their academic fields. It is the University's policy to recruit, hire, train, and promote persons in all job titles without regard to race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, protected veteran status, disability, or genetic information. Diversity and inclusion are core values at Washington University, and the strong candidate will

demonstrate the ability to create inclusive classrooms and environments in which a diverse array of students can learn and thrive.

The Hope College Chemistry Department (www.hope.edu/academic/chemistry) invites applications for one tenure-track Assistant or Associate Professor position, open to all areas of chemistry, to start in Fall 2020. Candidates must have a Ph.D. Postdoctoral experience is preferred. The Chemistry Department is a national leader in undergraduate research. The development of a strong, externally-funded research program involving undergraduate students is expected. Start-up funds will be provided. Teaching responsibilities will be split between classroom and laboratory courses in the candidate's field of expertise and the introductory chemistry program.

About the Department of Chemistry

The Department of Chemistry has long been one of the nation's premier undergraduate chemistry programs. Despite the moderate size of Hope's student body, the ACS and ASBMB-certified chemistry department includes 14 research active faculty and graduates an average of 45 chemistry majors per year. The Department offers BA and BS degrees, a biochemistry and molecular biology major (jointly with the Biology Department), and an interdisciplinary neuroscience major.

Undergraduate education through excellent classroom teaching with appropriate modern pedagogies integrated with authentic faculty scholarship with undergraduate student collaborators is a hallmark of our program. Student-faculty collaborative research involves approximately 100 students per year, including 55 who perform research in the department each summer. The success of the research program is demonstrated by the publication of research results and by the accomplishments of our graduates. Members of the Department have published 140 peer reviewed papers since 2010, 96 of which incorporate over 298 student coauthors. Based on NSF records, 250 Hope graduates have received PhDs in chemistry since 1958, which ranks Hope in the top 1% of all 614 US liberal arts and undergraduate institutions. This production continues into the current decade, as an average of 10 students enter graduate school each year. An average of 13 additional students enter medical or dental schools each year, representing an admissions rate of nearly 85%. Student-faculty collaborative research is supported generously by Departmental and College funds, but the majority of support is obtained from external funding agencies. Chemistry Department faculty currently hold active grants worth over \$1.4 million, acquired from the National Science Foundation, the Beckman Foundation, the American Chemical Society, Research Corp., and the Dreyfus Foundation, among others

The Chemistry Department is housed in the A. Paul Schaap Science Center, where each faculty member has a private office and an adjoining lab for research. A full time Director of Laboratories handles purchasing, maintains the chemical stockroom, and manages over 50 student employees within the department. The Department has a broad range of modern research and teaching instrumentation. A complete list can be found [here](#).

Qualifications

Candidates must have a Ph.D. Postdoctoral experience is preferred. Review of completed applications will begin September 16. A subset of candidates will be asked to be available for a video interview.

Application Instructions

The following application materials must be submitted electronically via www.hope.edu/employment/faculty:

- Cover letter
- Curriculum vitae
- Detailed description of research plans that includes the suitability of the projects for undergraduate researchers and potential funding opportunities (approximately 4-6 pages)

- Statement of teaching philosophy that may include reflection on your experiences, pedagogical approaches, and/or teaching goals. Please include a list of courses that you feel qualified to teach, whether those offered at Hope (<https://hope.edu/catalog/current/chemistry/index.html>) or others that you could envision. A description of how your teaching and/or mentoring could contribute to the Chemistry Department's promotion of inclusion and diversity is welcomed. (Approximately 2 pages total)
- A statement describing your fit to the mission of Hope College (<https://hope.edu/about/mission.html>). As it may not be addressed elsewhere in your application, please devote particular attention to the Christian aspect of the mission statement and your personal engagement with faith and/or a faith community. (Approximately 1 page)
- Unofficial undergraduate and graduate transcripts
- Contact information for at least three references. These references will be contacted upon application to submit a letter of recommendation

About Hope College

Hope College is a four-year liberal arts college where academic excellence and vibrant Christian faith join together in a supportive and welcoming community. Hope offers an academically rigorous, co-educational and residential education to 3,150 undergraduate students from 37 states and more than 36 countries. Affiliated with the Reformed Church in America since its founding in 1866, Hope College is known for its invitational ecumenical Christian atmosphere, friendly campus community, and well-balanced academic and co-curricular offerings. Hope's beautiful campus is located just steps from award-winning downtown Holland, Michigan, and fewer than seven miles from Lake Michigan.

At Hope College, accomplished faculty and staff mentor students to recognize the interconnectedness of the world and cultivate the skills, perspectives and habits that help them flourish inside and outside the classroom. Recognized as a national leader in undergraduate research and scholarship, Hope provides exceptional professional preparation and life-changing educational experiences that equip students for success after graduation. The college has consistently ranked among the nation's top liberal arts colleges and is featured in the book *Colleges That Change Lives*.

<https://www.schooljobs.com/careers/hopeedu/jobs/2520193/chemistry-assistant-or-associate-professor>

Assistant Scientist Position with Argonne National Laboratory

<https://www.anl.gov/hr/external-applicants>, search requisition # 406724.

Position Description

The Time-Resolved Research group in the X-ray Science Division of Argonne National Laboratory utilizes state-of-art laser-pump, X-ray probe time-resolved X-ray diffraction, spectroscopy and imaging capabilities to investigate multiple time- and length-scale dynamics in the fields of physics, chemistry and material science. Typically this is accomplished via pump-probe methods where the excitation pump is an ultrafast laser pulse. We seek an Assistant Physicist to be part of a multidisciplinary team to perform and support the application of time-resolved methods to a wide variety of x-ray scattering and spectroscopy techniques. A substantial aspect of this position will be to enhance and maintain safe and reliable operation of the laser systems of the group.

The successful candidate will develop and conduct collaborative and independent experimental work in the field of time-resolved x-ray science. This includes providing support to users in planning, implementing, and conducting pump-probe experiments, as well as data processing and analysis. The candidate will also be responsible for conceiving, planning, and implementing novel pump-probe instrumentation and techniques. Results will be reported in appropriate forms: publishing results in refereed journals and making oral presentations at meetings, conferences, symposia, and seminars. Within

5 years of the appointment, the candidate will develop all or part of an R&D program of interest to and in line with the strategic goals of the Division.

Position Requirements

This level of scientific knowledge and sophistication required is normally associated with a Ph.D. in physics, chemistry, materials science, or related disciplines.

Considerable: Skill and experience in maintaining, operating, and applying high-power ultrafast laser systems. Experimental skills to develop scientific applications and advanced instrumentation for pump-probe x-ray techniques. Knowledge and experience in using and operating a user-orientated synchrotron radiation beamline. Skill and knowledge in understanding and applying theoretical models. Advanced understanding of abstract concepts, and synthesizing results within current experimental and theoretical frameworks. Ability to work well in a team environment.

Good: Written and oral communication skills. Communicate effectively with the beamline user community, potential beamline users, and scientific collaborators. Skill in advanced data analysis algorithms and methods. Knowledge of beamline components in terms of design, operation and maintenance. Advanced knowledge and extensive experience with x-ray scattering measurements and data analysis.

Postdoctoral position with Argonne National Laboratory

Here is the link, <https://www.anl.gov/hr/postdoctoral-applicants>, search the requisition ID: 406339.

Position Description

The research project will be focused on investigating electronic and structural dynamics of photovoltaic perovskite materials using time-resolved X-ray absorption spectroscopy and diffraction. You will also participate in the development of laser pump X-ray probe techniques for thin films and solid/liquid interfaces. The project is based in the Structural Science group at the APS. The successful candidate will join a diverse multidisciplinary team with expertise in chemistry, physics, and materials.

Position Requirements

A background in time-resolved physical chemistry.
Experience with ultrafast lasers.
Experience on synchrotron X-ray experiments.
Strong oral and written communication skills.
Experience with XAS data analysis.
Knowledge on pump-probe laser and X-ray techniques.
Requires a PhD in physics, chemistry, materials science and related disciplines.

American Society for Mass Spectrometry – Postdoctoral Research Associate/Ion mobility mass spectrometry

Description

We seek a postdoc with a desire to tackle applied research questions utilizing high-resolution ion mobility mass spectrometry instrumentation platform (Agilent 6560 IMMS). The postdoc will have the opportunity to broaden research experience, will have excellent opportunity for publication and instrument access on a daily basis is typical.

The successful candidate will explore various applications of ion mobility and mass spectrometry analytical measurements focused on environmental and clinical applications. In addition to addressing current projects, the successful candidate will be encouraged to develop novel, data-driven research concepts and participate in grant-writing as the opportunity arises.

We are particularly interested in candidates with strong mass spectrometry experience. Having experience on using LC/MS and ion mobility techniques is preferred.

Requirements

The candidate will hold a Ph.D. in chemistry or a closely related discipline and have strong mass spectrometry expertise. The candidate will have demonstrated experience in sample preparation, analysis and data interpretation. The candidate will possess the ability to work independently and summarize data findings for dissemination. Additionally, the ability to work collaboratively across disciplines, strong interpersonal, excellent communication skills, and the ability to self-direct a research project are required