

**2018 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**October 22, 2018**

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

- Tuesday October 23<sup>rd</sup>:            *Faculty Lunch Seminar: Karl Scheidt*  
Tech K140  
12:00-1:00pm
- Wednesday October 24<sup>th</sup>:        *Dow Innovation Day: The Science of Materials*  
*A.N. Sreeram, Senior VP of R&D and Chief Technology Officer- Dow*  
Ford Design Center ITW Classroom 1-350  
12:00-2:00pm
- Friday October 26<sup>th</sup>:            *Basolo Medal 2018 Recipient:*  
*Professor Edward Soloman, Stanford University*  
Tech LR3  
3:30-5:30pm

**Arrivals**

Valeria Caponetti joined the Gianneschi Group  
Alan Enciso joined the Stoddart Group  
Zhiyong Lu joined Hupp Group  
Guangcheng Wu joined the Stoddart Group  
Dan Zhao joined the Marks Group  
Xinming Zhuang joined the Fachetti Group

**BIP**

BIP every Friday at 10:00am in Tech K140

**Announcements**

The Annual Chemistry Halloween Show will be in Tech LR3 on Friday, 26 October 2018.

Available show times are 9:00 AM and 1:00 PM. Each show is approximately 50 minutes.

Admission is free but you must be on the list to enter.

Please email [chemchair-assist@northwestern.edu](mailto:chemchair-assist@northwestern.edu) to be added to the list. Space is limited – so please reserve your spot in advance.

## Opportunities

**The Northwestern University Quantitative Bioelement Imaging Center (QBIC)** invites applications for a senior scientist position who lead the center into its next phase of growth and development as a national resource for bio-element imaging and analysis. Ph.D. level and other applicants with an experience and expertise in ICP-MS and managing core facilities are encouraged to apply. Appointment will be commensurate with education and training and experience. A research faculty appointment is available for Ph.D. level candidates.

The QBIC core facility is located in Silverman Hall on Northwestern University's Evanston campus. QBIC focused on the development and application of novel tools, methods, and instrumentation for the analysis and mapping of inorganic elements in biological samples. QBIC operates under the direction of Dr. Thomas O'Halloran, Morrison Professor of Chemistry, and is the only facility in the greater Chicago area with multiple ICP systems (quadrupole ICP-MS, ICP-OES, and high resolution ICP-MS) dedicated to the analysis of biological and materials samples. Additionally, this core facility offers the only laser ablation system dedicated to mapping biological samples in the Chicago area. QBIC partners with NUAnce (Northwestern University Atomic and Nanoscale Characterization Experimental Center), to provide access to STEM-EDS measurements of elements at the ultrastructural level. The core facility is one of eight cores overseen by Northwestern's Chemistry of Life Processes Institute (CLP), and is supported by CLP's experienced business and marketing staff.

This position requires strong organizational and technical skills, an ability to work with a diverse range of scientists and a keen interest in collaboration. The responsibilities of the Associate Director include operation and routine maintenance of facility instruments, training and supervising student users, supervision of technical staff, grant writing and advising faculty on experimental design and data analyses.

Applicants should submit a letter of application, curriculum vita, and three letters of reference to Dr. Sheila Judge ([s-judge@northwestern.edu](mailto:s-judge@northwestern.edu)), Senior Director for Research, Education and Administration, Chemistry of Life Processes Institute; <http://clp.northwestern.edu>.

**The Surface Chemistry Group in the Materials Science Division at Argonne National Laboratory** is in search of a postdoctoral appointee. The successful candidate will enable high efficiency solar-to-fuels conversion through precise few-atom cluster synthesis and chemically precise bridges across unconventional semiconductors. The appointee will advance the basic science of precision gas-phase surface synthesis (atomic layer deposition) and in situ and ex situ chemical and materials characterization. This will be interdisciplinary and highly collaborative work (part of an Energy Frontier Research Center) that includes surface synthesis, physical and optoelectronic characterization, and electrochemical assessment. Must have demonstrated outstanding promise as a research scientist. Strong applicants will exhibit strong basic science understanding, motivation, and an ability to originate, carry out, and publish significant original research. Strong written and verbal skills are required. Previous experience with atomic layer deposition, inorganic chemistry, surface characterization (ellipsometry, AFM, STM, FTIR), electrochemistry, and solar energy conversion are desirable but not required. A Ph.D. in Chemistry, Materials Science, Physics, or a related field received within the last three years is required.

Interested candidates should send a detailed CV, along with a list of publications, to Alex Martinson [martinson@anl.gov](mailto:martinson@anl.gov). Argonne is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC. Argonne is an equal opportunity employer, and we value diversity in our workforce.

**Wolfe Laboratories LLC, a subsidiary of Pace Analytical Life Sciences**, is a premier Contract Research and Development Organization located in Woburn, MA, providing pharmaceutical development services for small molecules, biologics, oligonucleotide therapeutics, and other biopharmaceutical drug candidates.

We are currently seeking Scientists to support the rapid growth of our organization. As key members of the Pharmaceutical Development team these roles will require high-performing individuals who can design and execute studies supporting the pharmaceutical development of small molecule drugs. We are looking for individuals with a solid understanding of the analysis and/or formulation of pharmaceutical products as well a good working knowledge of the drug development process. These positions are critical in the operations of the organization and for the management of client drug development projects.

**DUTIES AND RESPONSIBILITIES:**

An ideal candidate would specialize and possess the skills to work in one or more of the following areas:

**Analytical Chemistry:**

- Develop methods to characterize and understand the pharmaceutical properties (physicochemical and biopharmaceutical) of drug substances and formulations.
- In-depth understanding of HPLC and other chromatographic separations including the ability develop separation methodologies and understanding of method validation following FDA/ICH guidance
- Understanding of physical characterization of small molecule drugs, including particle size analysis, DSC, TGA and XRPD.
- Experience in a variety of other analytical and spectroscopic techniques including Karl Fischer titration, UV-Vis, IR/NIR, fluorescence, capillary electrophoresis, and dissolution
- Working knowledge of mass spectroscopy including TOF and LC-MS is a plus

**Formulation Development:**

- Design and conduct pre-formulation and formulation studies for the development of efficacious and stable parenteral, solid oral, ophthalmic, and other dosage forms
- Understanding of drug degradation processes and formulation approaches to prevent product degradation
- Experience with formulation processes including milling, preparation of solutions/suspensions, spray drying, lyophilization, tableting/coating, and capsule filling.

**General Responsibilities:**

Will work as a member of cross-functional teams, with a large degree of independence representing own area of expertise. Execute and oversee specialized analytical testing and generation of technical documents. Assess and report data with a clear understanding of its reliability, interpret findings, and draw authoritative conclusions and recommendations so that their significance can be appreciated.

Interface with clients to develop an in depth understanding of client objectives and define solutions to meet their program requirements by writing persuasive proposals for the projects. Regularly interact with clients to keep them abreast of project progress. Will present information for discussion at project teams. Will be expected to influence colleagues/clients in other areas/functions and/or in external groups. Write and review interim and final reports.

Maintain a strong awareness of FDA and other regulatory requirements in the area of pharmaceutical product development. Stay up to date with current scientific literature, particularly in the area of drug substance and drug product characterization, and actively apply new concepts as appropriate.

Apply technical knowledge to the company improvement projects and the evaluation of new technology/processes. Collaborate with specialist scientific and/or technology teams.

## **REQUIRED BACKGROUND AND EXPERIENCE:**

Ph.D. in Pharmacy, pharmaceuticals, pharmaceutical chemistry, organic chemistry, biochemistry, biophysics, chemical engineering or closely related discipline. Scientist-level candidates will require at least 2 years of post-doctoral or industrial experience.

Understanding of drug development from the post discovery phase to the initial clinical trials phase.

A demonstrated drive to apply technical knowledge to developing drug delivery systems and formulations.

Established track record of significant contributions as an individual technical expert as well as the ability to thrive in a multi-disciplinary team environment.

Outstanding written and oral communication skills as well as polished and persuasive client presentation skills.

Flexibility and outstanding time management skills to provide the full range of pharmaceutical support (including project representation) across many projects.

Pace Analytical is an Equal Opportunity Employer and will not discriminate against any applicant for employment on the basis of race, age, religion, sex, veterans, individuals with disabilities, sexual orientation, or gender identity. <https://www.pacelifesciences.com/>

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We are currently seeking Scientists and Associate Scientists to support the rapid growth of our organization. As key members of the Pharmaceutical Development team these roles will require high-performing individuals who can design and execute studies to aid in the development of small molecules, biologics, oligonucleotide therapeutics, and other biopharmaceutical drug candidates. We are looking for individuals with a solid understanding of the analysis and/or formulation of pharmaceutical products as well as a good working knowledge of the drug development process. These positions are critical in the operations of the organization and for the management of client drug development projects.

## **DUTIES AND RESPONSIBILITIES:**

**An Ideal Candidate would specialize and possess the skills to work in one or more of the following areas:**

### **Analytical Chemistry:**

- Develop methods to characterize and understand the pharmaceutical properties (physicochemical and biopharmaceutical) of drug substances and formulations.
- In depth understanding of LC including the ability to develop HPLC and UPLC separation methodologies.
- Experience in a variety of analytical and spectroscopic techniques including UV-Vis, fluorescence, CD, CE, DLS, DSC, TGA, SEC-MALS.
- Working knowledge of LC-MS including quantitative analysis of small molecules in biorelevant fluids and biotherapeutic characterization.

### **Biopharmaceutical Development:**

- Evaluate the chemical, physical, and biophysical properties of molecules including peptides, proteins, bioconjugates relevant to biopharmaceutical drug development.
- Develop analytical and biophysical methods to characterize product variants.

- Design and perform experiments to determine the stability in prototype formulations, to detect and identify the decomposition products, and to achieve formulations with acceptable shelf-life.

**Nucleic acids/Oligonucleotides:**

- Develop and execute analytical methods for content and purity including IP-RP-LC, AEX-LC, LC-MS, CE, UV-Vis, fluorescence, etc. to characterize oligonucleotide therapeutics.
- Develop stabilizing formulations for the efficient delivery of oligonucleotide drug candidates (siRNA, RNA, DNA, etc.).
- Experience with formulation and characterization of lipid nanoparticles and other polymeric and lipid delivery systems is a plus.

**General Responsibilities:**

Execute and oversee specialized analytical testing and generation of technical documents

Collect, assess and report data with a clear understanding of its reliability, interpret findings, and draw authoritative conclusions and recommendations so that their significance can be appreciated.

Regularly interact with clients to keep them abreast of project progress

Interface with clients to develop an in-depth understanding of client objectives and define solutions to meet their program requirements by writing persuasive proposals for projects.

Write and review interim and final reports.

Maintain a strong awareness of current scientific literature, particularly in the area of drug substance and drug product characterization, and actively apply new concepts as appropriate.

Apply technical knowledge to the company improvement projects and the evaluation of new technology/processes. Collaborate with specialist scientific and/or technology teams.

Will work as a member of cross-functional teams, with a large degree of independence representing own area of expertise.

**REQUIRED BACKGROUND AND EXPERIENCE:**

Ph.D. in pharmaceutical chemistry, chemical biology, organic chemistry, biochemistry, biophysics, chemical engineering or closely related discipline.

Understanding of drug development from the post discovery phase to the initial clinical trials phase.

A demonstrated drive to apply technical knowledge to developing drug delivery systems and formulations.

Established track record of significant contributions as an individual technical expert as well as the ability to thrive in a multi-disciplinary team environment.

Outstanding written and oral communication skills as well as polished and persuasive presentation skills.

Flexibility and outstanding time management skills to provide the full range of pharmaceutical support (including project representation) across multiple projects.

Background using HPLC, LC-MS, UV-Vis, fluorescence, CD, CE, DLS and other analytical techniques.

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**Beloit College** invites applications for a Visiting Assistant Professor of Chemistry appointment to begin in January 2019. The successful candidate will hold a Ph.D. (A.B.D. or Ph.D. candidates will receive full consideration) in chemistry or a related field and will teach an upper-division undergraduate physical chemistry course on thermodynamics and kinetics and one section of an introductory chemistry course. This full-time position offers a one-semester appointment with the possibility of reappointment contingent on performance and funding and is an excellent opportunity to gain teaching experience in a department that is known nationally for innovative pedagogy. Over the last 20 years, multiple visiting

faculty members in the chemistry department have secured tenure-track positions at colleges and universities.

Because equity and inclusion are central to our students' liberal education and vital to the thriving of all members of our residential learning community, Beloit College aspires to be an actively anti-racist institution. We recognize our aspiration as ongoing and institution-wide, involving collective commitment and accountability. We welcome employees who are committed to and will actively contribute to our efforts to celebrate our cultural and intellectual richness and be resolute in advancing inclusion and equity. We encourage all interested individuals meeting the criteria of the described position to apply.

Located in a diverse community close to Madison, Milwaukee, and Chicago, Beloit is a selective undergraduate liberal arts college that attracts students from across the United States and the world. The college emphasizes excellence in teaching, learning beyond the traditional classroom, international perspectives, and collaborative research among students and faculty. It is recognized as one of the Colleges That Change Lives and in 2014 was recognized among the Great Colleges to Work For.

Inquiries may be addressed to Theodore Gries, Chemistry Department Chair at [griest@beloit.edu](mailto:griest@beloit.edu). Interested individuals may submit a letter of interest, curriculum vitae, unofficial scans of undergraduate and graduate transcripts, and the contact information for three references to the Sanger Center for the Sciences Administrative Assistant, Taylor Ajamian, at [ChemistrySearch2018@beloit.edu](mailto:ChemistrySearch2018@beloit.edu). Review of applications will begin immediately and continue until the position is filled.

AA/EEO Employer

**Siemens** The Staff Biochemist position involves the development and/or qualification of in vitro clinical chemistry and/or immunoassay diagnostic products. Commercial Product Support works closely with representatives from other functions to re-design, develop, transfer, verify and validate a new or revised product. This position reports to a Director of Assay Development.

Responsibilities:

A candidate for this position would have responsibility for:

- Leading the development and/or qualification of assay products for clinical chemistry or immunoassay systems
- Leading complex investigations of assay product issues
- Leading or participating in design control regulated activities such as risk management, design verification, design change, process characterization and validation
- Representing Commercial Product Support in cross-functional meetings and discussions
- Guiding the work of 2-3 biochemists
- Writing plans, protocols and reports
- Troubleshooting technical problems
- 

Required experience, education and knowledge/skills:

- Background in Biochemistry, Chemistry or the Biological Sciences
- Team player with the ability to take initiative
- Required knowledge, skills or expertise: Leadership
- Effective verbal and written communication skills
- Word, Excel, Powerpoint experience
- Flexibility to change priorities to meet business needs
- Statistical analysis
- Broad chemistry/biochemistry knowledge of buffer systems, enzymes, surfactants, preservatives
- Working with biohazardous materials

- No travel required

Preferred Knowledge/Skills, Education, and Experience Preferred, but not required experiences include:

- Experience with assay systems and evaluation of assay performance
- Experience as a technical lead for assay development projects
- Experience working under FDA 21CFR820.30 and ISO 13485
- Training in design of experiments and six sigma techniques

Education:

Requires Ph.D or 5-8 years relevant industry experience in Life Sciences, Medical Devices or Diagnostics Knowledge and Experience: Demonstrates and applies a broad knowledge of field of specialization through successful completion of moderately complex assignments. Successfully applies complex knowledge of fundamental concepts, practices, and procedures of particular area of specialization. Demonstrates knowledge of organization's business practices and issues. Typically 5-8 years of successful experience in related field and successful demonstration of Key Responsibilities and Knowledge as presented above. Advanced degree MAY be substituted for experience, where applicable. Direction of Others: Provide technical guidance for 2-3 biochemists. Key Working Relationships: Primarily intra-organizational contacts.

Job requisition number: 228788

Please contact Peter Foote ([peter.foote@siemens-healthineers.com](mailto:peter.foote@siemens-healthineers.com)) for a referral, or with any questions. Visit <https://jobs.siemens-info.com/jobs/228788?lang=en-us&previousLocale=en-US> for more information.

**L'Oréal USA** is currently seeking a talented and innovative Sr. Scientist - Raw Materials to join our Innovative Raw Material group in Advanced Research department located at our Clark, NJ facility. Contact: [zhi.li@rd.loreal.com](mailto:zhi.li@rd.loreal.com)

## MAJOR FUNCTIONS

- Work as part of a global team and support its mission of valuing and continuously improving L'Oréal portfolio of raw materials (RMs) used in cosmetic formulations
- Interact with L'Oréal internal partners (lab, Safety & Regulatory, Sourcing, Qualification, ...) and external vendors for matters pertaining to raw materials used in L'Oréal formulations
- Support L'Oréal business needs through activities related to addressing raw materials crisis, valorizing & renovating raw materials in portfolio, and securitizing focused raw materials
- Contribute to L'Oréal Sustainable Innovation and Sharing Beauty With All (SBWA) visions as a member of its Innovative Raw Material group

## DETAILED DESCRIPTIONS

- Coordinate internal partners' RM technical data requests for technical / safety / regulatory / claim / sustainability related issues, by assessing independently the nature of the requests, interacting directly with external suppliers for information, checking quality of documents received, and tracking proactively status of requests till completion.
- Review supplier information in order to ensure data consistence and compliance with chemical & cosmetic regulations and L'Oréal internal guidelines.

- Track raw material related crisis; Lead assigned projects related to identifying alternative for raw materials in crisis by working closely with internal & external partners globally
- Cascade from global team to US stakeholders raw material database related knowledge, including raw material related IT tools & modules, properties, categorization, and crisis management system. Assist any related new tool/module deployment
- Coordinate Raw Material group's workshops, supplier visits & events, and technical trainings by working closely with stakeholders, suppliers, and US labs
- Participate in team's efforts' of addressing raw material related key regulatory developments in US; help maintain a strong connection among key stakeholders.
- Contribute to team's efforts related to securing of specific raw materials; Lead projects related to renovating raw materials in portfolio by working closely with internal & external partners globally
- Participate team's efforts of raw material technical supports to US labs

## QUALIFICATIONS

- B.S., M.S. or Ph.D. in chemistry, chemical engineering, or biochemistry. All experience levels will be considered for appropriated job levels (Scientist, Sr. Scientist I, Sr. Scientist II, or Associated Principal Scientist)
- Strong team player that is able to work both collaboratively and independently in a fast-paced global R&D environment.
- Strong communication and interpersonal skills to manage internal & external partners' expectations and to proactively coordinate activities with tight timeline
- Strong organizational skills and multi-tasking ability; good attention to detail and quality of work
- Strong drive to build expertise in cosmetic Raw Material related topics
- Prior academic or industrial experience with wet chemistry is a plus
- Prior lab experience with formulating cosmetic / household / pharmaceutical products is a plus
- Must be legally eligible to work in the US on a long-term basis

## **The Department of Biochemistry & Molecular Biology at the Indiana University School of Medicine:**

Seeking applications for all levels of tenure-track faculty positions in the areas of:

- Gene Expression (<http://indiana.peopleadmin.com/postings/6296>),
- Structural Biology (<http://indiana.peopleadmin.com/postings/6178>),
- Chemical Biology (<https://indiana.peopleadmin.com/postings/6187>), and
- Metabolism and/or Neuroscience (<http://indiana.peopleadmin.com/postings/6177>).

These positions are associated with the Department of Biochemistry and Molecular Biology (BIOM) and/or the Precision Health Initiative (PHI) at IUSM with the possibility of primary or secondary appointments in other departments or Centers on campus. Further descriptions for each of these positions can be found at their respective URL and attachment to this email.

Successful applicants are expected to have/develop an independent research program, participate in training students and fellows, and engage in research interactions within the IUSM community complementary to their scientific interests. A competitive salary, startup funds, and space will be provided.

Interested individuals should submit a *Curriculum Vitae*, cover letter, summary of past accomplishments and future research plans, and the names and contact information for 3-5 references in electronic format

to the most relevant posting. The search committee will begin considering applications immediately and on an on-going basis until positions are filled. Questions can be directed to [biomfac@iupui.edu](mailto:biomfac@iupui.edu).

**The University of Illinois at Urbana-Champaign Department of Chemistry** invites applications for open rank full-time tenure-track positions in all areas of chemistry. Candidates will be expected to establish a high-quality, externally funded research program and have a commitment to outstanding graduate and undergraduate teaching. Salary is negotiable. Target start date is August 16, 2019. A Ph. D. in Chemistry or a related field is required. Applicants are expected to show clear evidence of excellence in research and teaching.

To apply, create your candidate profile through <https://go.illinois.edu/Chemistry> and submit application materials by October 24, 2018. Applicants must submit the following: **separate PDF files** of your cover letter, curriculum vitae, statement of proposed research and scholarship, and a brief statement of teaching interests and philosophy. **Do not add files to the drop down labeled “All Req Materials (One File) for AP & Faculty jobs”**. The online application will require names and contact information for three professional references. Referees will be contacted electronically by the Department within 2 business days after submission of the application.

Only applications submitted through the University of Illinois Job Board will be considered. You will be required to list the following:

Teaching/Research Areas of Interest:

1. Primary Area of Interest (required)
2. Secondary Area of Interest (required)
3. Other Area of Interest

Please choose from the following area(s) of interest: analytical, chemical biology, inorganic, materials, organic, physical, and theoretical.

Please contact Chemistry Faculty Search Coordinator, [chemistry@illinois.edu](mailto:chemistry@illinois.edu), or 217-244-0565 if you have questions. In order to ensure full consideration, application materials (**in PDF format only**) must be received by October 24, 2018. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date.

**Dartmouth College Department of Chemistry** seeks an individual with a Ph.D. in chemistry who has already established a nationally recognized research program in synthetic organic chemistry, whose research interests will complement those of the current faculty, and who will excel at teaching in our Undergraduate and Ph.D. curricula. We particularly seek candidates who will help lead collaborative research projects both within the Department and involving other Dartmouth researchers, including those at Dartmouth's Geisel School of Medicine, Norris Cotton Cancer Center, and Thayer School of Engineering, and who have a demonstrated ability to contribute to Dartmouth's undergraduate diversity initiatives in STEM research, such as the Women in Science Program, E. E. Just STEM Scholars Program, and Academic Summer Undergraduate Research Experience (ASURE). We are especially interested in applicants with an interest in successful teaching and mentoring of students from all backgrounds (including first-generation college students, low-income students, racial and ethnic minorities, women, LGBTQ, etc.). Candidates will be expected to teach introductory and advanced courses in organic chemistry, as well as graduate courses in their area of research.

Application Instructions

Applicants should submit a curriculum vitae, a description of their research accomplishments and future plans, a summary of their current research funding, a statement of their teaching and mentoring interests, which may include a discussion of past accomplishments and future goals regarding the training of underrepresented groups in the sciences and contributing to the growth and support of a diverse community of students and scholars at Dartmouth, and the names of at least three references. All

inquiries and applications will be treated confidentially. Applicants are invited to submit application materials via Interfolio. The Committee will begin to consider completed applications on October 15, 2018, and will continue until the position is filled. Dartmouth is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. In that spirit, we are particularly interested in receiving applications from a broad spectrum of individuals, including women, persons of color, persons from a diverse socio-economic background, persons with disabilities, veterans or any other legally protected group.

#### Application Process

This institution is using Interfolio's Faculty Search to conduct this search. Applicants to this position receive a free Dossier account and can send all application materials, including confidential letters of recommendation, free of charge. Apply: <https://account.interfolio.com/login?apply=53325>

**The University of Iowa Chemistry Department is** accepting applications for tenure-track positions in organic chemistry (broadly defined), physical chemistry (broadly defined), and radiochemistry, all with expected starting dates in August, 2019. The radiochemistry position is at the assistant professor level, but applicants at both the assistant and associate professor level are welcomed for the organic and physical chemistry positions. We are also seeking applications for at least two instructional track positions.

Links to each position description and the procedure for submitting applications are as follows:

Physical Chemistry search: <https://jobs.uiowa.edu/faculty/view/73244>

Organic Chemistry search: <https://jobs.uiowa.edu/faculty/view/73192>

Radiochemistry search: <https://jobs.uiowa.edu/faculty/view/73167>

Instructional Track search: <https://jobs.uiowa.edu/faculty/view/73345>

**The Lilly Technology Center in Indianapolis is accepting applications for Research Scientist-Process Chemistry** <http://bit.ly/43770LLY>).

#### Responsibilities

Small Molecule Design and Development (SMDD) is an innovation-focused organization in Lilly striving to identify, develop and apply the most cutting-edge technologies to deliver maximum benefit to our patients. Within SMDD, the process chemistry group is essential to establishing a robust and sustainable supply chain for small molecule active pharmaceutical ingredients (API), which are being developed for clinical evaluation and potential commercialization. The process chemistry capability is necessary to identify the challenges within a given small molecule route and identify innovative solutions to address the key risk points (i.e., yield, impurity based, hazardous unit operations, etc.).

Our team is looking for a creative and energetic synthetic organic chemist to participate in the route design, development, and manufacture of small molecule drug candidates to support active clinical trials and product commercialization efforts. Our dynamic group is made up of chemists, pharmaceutical scientists, analytical chemists, and engineers. Top candidates for this position will be expected to:

- Possess fluent knowledge in modern synthetic organic chemistry methods with the drive to challenge existing methods; create and apply cutting edge technology to the synthesis of active pharmaceutical ingredients in a time constrained environment.
- Demonstrate high learning agility with regard to grasping and exploiting new scientific concepts and methods across multiple disciplines such as continuous processing, automated reaction screening, and digital design; be able to apply these learnings to a portfolio of small molecule and peptide assets.

- Demonstrate the ability to define clear goals, critical success factors and timelines; make decisions and solve problems at the individual and team level.
- Demonstrate teamwork and consistently build collaborative and productive cross-functional relationships.
- Collaborate with external manufacturing partners to develop robust chemical process that are readily amenable to efficient drug substance manufacturing.
- Collaborate closely with Discovery Chemistry to provide SAR and candidate selection guidance to the discovery core team.
- Embrace diverse thought, background and experience to deliver innovative solutions.
- Possess strong communication (oral, written), organizational, and leadership skills; demonstrate the ability to understand and communicate scientific issues and strategy at the project/ program level

#### Basic Qualifications

- PhD in synthetic organic chemistry

#### Additional Information

- Potential exposure to chemicals, allergens and loud noises.
- Lilly is an EEO/Affirmative Action Employer and does not discriminate on the basis of race, gender, protected veteran status, disability or any other legally protected status
- Travel: 0 to 10%
- Position Local: Indianapolis, IN; Lilly Technology Center-North (LTC-N)

#### Additional Skills/Preferences

- Strong technical skills to supply business value.
- Knowledge and experience with management of a technical project.
- Demonstrated leadership capabilities especially in a team environment.
- Good interpersonal skills and a sustained tendency for collaboration.
- Ability to prioritize multiple activities and manage ambiguity.
- Ability to influence others to promote a positive work environment.
- Demonstrated initiative and risk-taking.
- Demonstrated technical proficiency and ability to create ideas for future work plans.
- Demonstrated success in persuasion, influence and negotiation.