

**2013 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**May 20, 2013**

- Tuesday, May 21:     *Faculty Seminar*  
                          Elad Harel  
                          Tech K140, 12-1 pm
- Dissertation Defense*  
                          Lukasz Koscielski  
                          Tech G129/139, 1pm
- Wednesday, May 22    *Undergraduate Chemistry Council (UCC) Distinguished Speaker*  
                          Stephen Kent  
                          Tech L211, 4 pm
- Thursday, May 23:    *Organic Seminar*  
                          Ivan Aprahamian  
                          Ryan 4003, 11 am
- Friday, May 24:       *Dissertation Defense*  
                          Kaylie Young  
                          Ryan 4003, 1 pm
- Excellence in Graduate Research Colloquium*  
                          Alexander M. Spokoyny (2011 Recipient)  
                          Tech LR3, 4 pm

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

**Reminder**

BIP meets every Friday in Tech K140 at 3 PM.

**Arrivals and Departures**

None to report this week.

**Opportunities**

**Argonne Assistant Chemist Job Opening**

Please see this link for job posting and application instructions:

<http://web.anl.gov/jobsearch/detail.jsp?userreqid=320713+CSE&lsBrowse=THISWEEK>

**Worcester Polytechnic Institute (WPI)** invites applications and nominations of candidates for the Richard T. Whitcomb Professorship in Biochemistry. The appointment will be made in the Department of Chemistry and Biochemistry (CBC) in the Arts and Sciences at WPI. The Department offers undergraduate and graduate (MS and PhD) degrees in Chemistry and Biochemistry. CBC is integral to WPI's ongoing major life science research initiative and five new faculty at the assistant, associate and full professor level were recently hired. This Professorship offers a generous start-up package, continued financial support for research and substantial laboratory space in the recently built, state-of-the-art Life Sciences research facility. The holder of the Whitcomb chair will be a dynamic scholar and teacher, with a strong track record of creativity and an

internationally highly visible research program, studying biochemical systems at the molecular level. The successful candidate will have a strong record of continued funding, high impact publications, and a solid presence in the scientific community.

Interested candidates should submit a single pdf-formatted file including a cover letter, a curriculum vitae, statement of research and teaching interests, achievements and plans, and a list of three references to WhitcombSearchCBC@wpi.edu. Inquiries can be addressed to Dr. José Argüello (arguello@wpi.edu) Whitcomb Search Committee, Department of Chemistry and Biochemistry, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609. Review of applications will commence immediately and continue until the position is filled.

**AbbVie's Organic Chemistry Group in Process Research & Development** has two openings for associate chemists. We are looking for self-motivated scientists with strong synthetic chemistry skills. A Masters of Science degree in Chemistry is preferred and the candidate must have a solid fundamental knowledge of organic chemistry, keen problem solving skills and laboratory research experience with compound preparation, purification, spectral analysis and interpretation. The successful candidate must work well in a team environment under mentorship of an experienced supervisor discovering, developing and executing chemical processes to prepare clinical drug candidates.

If you know someone who should be considered for one of these positions, please encourage him/her to apply by visiting our Careers web page at [www.abbvie.com](http://www.abbvie.com) and search [12000000J4](#) or [13000001B8](#). Feel free to pass the message around your department.

AbbVie (NYSE:ABBV) is a global, research-based biopharmaceutical company formed in 2013 following separation from Abbott. AbbVie combines the focus and passion of a leading-edge biotech with the expertise and capabilities of a long-established pharmaceutical leader to develop and market advanced therapies that address some of the world's most complex and serious diseases. In 2013, AbbVie will employ approximately 21,000 people worldwide and markets medicines in more than 170 countries.

#### **Lake Forest College – Department of Chemistry**

The Department of Chemistry invites applications for a **one-year visiting faculty** position at the **Assistant Professor** level, starting **August 2013** with primary teaching responsibilities in instrumental analysis. Candidates should demonstrate enthusiasm for liberal arts education and readiness to contribute as needed to the general chemistry and non-major chemistry curricula. A commitment to excellence in liberal arts education is required. Postdoctoral experience and demonstrated excellence in teaching is strongly preferred. Teaching responsibilities will include the 400-level instrumental analysis lecture and lab as well as courses in introductory chemistry and general education science. Candidates may also have the option to participate in course offerings in the Environmental Studies program. The Lake Forest College Chemistry department has an established history of emphasizing use of research-grade instrumentation across the curriculum beginning with a first year sequence that includes NMR and UV-vis spectroscopy and gas chromatography. Upper level students expand the use of instrumentation in the laboratory to include the use of IR, HPLC, spectrofluorimetry, GC-MS, X-ray crystallography, and flash photolysis. Candidates should demonstrate an interest in maintaining and enhancing this departmental priority. A highly selective liberal arts college located on Chicago's North Shore, Lake Forest College enrolls approximately 1,500 students from over 47 states and 78 countries. At Lake Forest College, the quality of a faculty member's teaching is the most important criterion for evaluation. The College also expects peer-reviewed publications and active participation in the College community. Lake Forest College embraces diversity and encourages applications from women and other members of historically underrepresented groups.

Applicants should send a CV, cover letter, and a statement of teaching interests/philosophy to [chemsearch@lakeforest.edu](mailto:chemsearch@lakeforest.edu) (please use "Instrumental" in the subject field.) Three letters of recommendation and graduate school transcripts should be e-mailed under separate cover directly from the recommender to [chemsearch@lakeforest.edu](mailto:chemsearch@lakeforest.edu). **Review of applications will begin immediately** and continue until the position is filled.

#### **Wolfe Laboratories, Inc.**

**1) Postdoctoral Scientist Job Summary:** We require a highly motivated Postdoctoral Scientist to work on protein stability & aggregation as it relates to therapeutic protein development. The current postdoctoral project is designed to understand the fundamental mechanism/s of protein instability, sub-visible particulate formation and aggregation using variety of chromatographic, biophysical and biochemical tools.

**DUTIES AND RESPONSIBILITIES:**

**SCIENTIFIC RESPONSIBILITIES:**

- Evaluate physical and biophysical properties of peptides and proteins relevant to drug development and subsequently communicate the interpretation and implication of results to clients.
- Develop analytical methods and characterize product variants
- Execute and oversee specialized analytical testing and generation of technical documents
- Maintain a strong awareness of current scientific literature, particularly in the area of protein characterization, and actively apply new concepts as appropriate.
- Develop and evaluate new cutting-edge technologies for protein product understanding, especially product heterogeneity and impact on safety and efficacy.
- Design experiments to develop pre-clinical and clinical formulations of drug candidates to support drug discovery and development.
- Design experiments to determine the stability in prototype clinical formulations, to detect and identify the decomposition products, and to achieve formulations with acceptable shelf-life.
- Perform laboratory experiments related to the above.
- Create presentations for outside scientific meetings and conferences to showcase Wolfe Laboratories' scientific leadership in the field of protein analysis and characterization.

**CLIENT INTERACTION RESPONSIBILITIES:**

- Interface with clients to develop an in-depth understanding of client objectives and define solutions to meet their program requirements
- Develop compelling approaches and solutions to address client needs
- Write persuasive proposals for the projects
- Regularly interact with clients to keep them abreast of project progress
- Write and review interim and final reports.

**REQUIRED BACKGROUND AND EXPERIENCE:**

- Ph.D. in Biochemistry, Biophysics, Chemistry or closely related disciplines
- In depth experience in the area of protein biophysical chemistry of proteins involving structure-folding-stability relationships. This includes purification, stability, kinetics and thermodynamics of folding of monomeric proteins, particularly as they relate to the pre-formulation and formulation development of new drugs
- Hands-on experience with chromatographic method development as well as techniques used for biophysical characterization of biopharmaceutical products such as calorimetry, spectroscopy, higher order structure analysis, protein mass spectroscopy, CE, HPLC, ELISA, and carbohydrate analysis.
- A demonstrated drive to apply technical knowledge to developing drug formulations
- Established track record of significant contributions as an individual technical expert
- Outstanding written and oral communication skills as well as polished and persuasive client presentation skills

**ADDITIONAL DESIRABLE BACKGROUND:**

- Post doctoral experience in analytical biochemistry or closely related discipline.
- Good understanding of excipient and ligand interaction with proteins
- Evaluation of thermodynamic and kinetic models

Interested candidates are requested to email a copy of their resume with a cover letter including salary history to: [steve.pangione@wolfelabs.com](mailto:steve.pangione@wolfelabs.com)

**2) Quality Systems Supervisor**

An opportunity exists for an exceptional individual in the area of Quality Systems, focusing on the management of Quality Control and Quality Assurance. The QS Supervisor will work under the guidance of the Associate Director of Quality to implement and maintain Quality Systems supporting the Wolfe Laboratories GLP/GMP/GCP analytical testing and characterization program. The individual must be highly motivated toward increasing level of responsibility and leadership. The individual must be willing to receive a combination of on the job and outside training on GLP/GMP/GCP operations.

Responsibilities include:

- Help to maintain and grow all Quality Systems including, but not limited to the management of:
- Internal audits
- Vendor audits
- Training
- Documentation
- Laboratory controls
- Non-conformances and CAPA
- Ensure compliance with GLP, GMP, and GCP regulations and industry standards as they relate to Wolfe Laboratories activities
- Provide Quality Assurance oversight for GLP, GMP, and GCP-related activities
- Manage Quality Assurance review of analytical test results, investigations, reports and protocols for GLP, GMP, and GCP projects
- Manage internal and external audits
- Lead Quality Assurance investigations of non-conformances by analyzing data, interpreting results and recommending appropriate corrective actions to area managers
- Contribute to the efficiency of Quality Processes by identifying and suggesting improvements and eliminating non-value added work
- Contribute to writing of proposals or technical agreements for GLP/GMP/GCP projects

**Desired Background and Experience:**

The successful candidate will hold a Master's or Ph.D. degree in a science-related field, with 1–3 years of experience in an equivalent role. Previous laboratory experience required: experience in manufacturing operations for pharmaceutical/biopharmaceutical or drug development organizations in activities supporting GMP or GLP functions preferred. Ability to apply established principles, theories and concepts in areas of laboratory operations. Can propose, design and implement solutions to solve or prevent problems that have a negative impact on quality of executed work or on compliance with Wolfe Laboratories Quality Systems and GLP/GMP/GCP regulations. Familiarity with regulatory guidance documents is highly desirable.

Good communication and interpersonal skills are essential for this position, as it requires working with both internal and external clients, vendors and suppliers. Prior experience delivering trainings is also helpful. Interested candidates are requested to email a copy of their resume with a cover letter including salary history to: [employment.wolfelabs@wolfelabs.com](mailto:employment.wolfelabs@wolfelabs.com).

Wolfe Laboratories, Inc. (WLI), located in Watertown, MA, is a premier contract research organization that provides integrated early drug development solutions to the biopharmaceutical industry. Wolfe Laboratories is an essential element of the drug development ecosystem, recognized by global and virtual biopharmaceutical companies as a science-driven organization whose mission is to provide outstanding discovery and development services tailored to its clients' needs for rational formulation development. Wolfe Laboratories integrates the critical path components of early development to ensure that programs advance while meeting rigorous scientific demands with flexibility to address dynamic challenges and aggressive timelines.

Wolfe Laboratories' vision is to improve human health, and we continue to strive towards that goal by embracing our core values of integrity, excellence and teamwork. The company has a high percentage of repeat clients, which is a testament to its long-term commitment of continual investment in its capabilities to meet biopharma's growing demand for high quality, integrated early development services.

We have a steady 12-year track record of growth, success and profitability.

For more information visit us at: [www.wolfelabs.com](http://www.wolfelabs.com).

Wolfe Laboratories, Inc is an Equal Employment Opportunity employer

**The National Research Council of the National Academies** sponsors a number of awards for graduate, postdoctoral and senior researchers at [participating federal laboratories and affiliated institutions](#). These awards include generous stipends ranging from \$42,000 - \$80,000 per year for recent Ph.D. recipients, and higher for additional experience. [Graduate](#) entry level stipends begin at \$30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.

Detailed program information, including online applications, instructions on [how to apply](#) and a [list of participating laboratories](#), is available on the NRC Research Associateship Programs [Website](#) (see link above).

Questions should be directed to the NRC at 202-334-2760 (phone) or [rap@nas.edu](mailto:rap@nas.edu).

There are four annual review cycles.

Review Cycle: **May**; Opens March 1; Closes May 1

Review Cycle: **August**; Opens June 1; Closes August 1

Review Cycle: **November**; Opens September 1; Closes November 1

Review Cycle: **February**; Opens December 1; Closes February 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.