

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

**August 6, 2018**

***For full schedule, including Center events, please see the Department Calendar:***

<http://www.chemistry.northwestern.edu/events/calendar.html>

- Monday August 6<sup>th</sup>:     *Myron L. and Muriel S. Bender Distinguished Summer Lectures in Organic Chemistry*  
                              *Wilred van der Donk, University of Illinois, Urbana-Champaign*  
                              Tech L211  
                              4:00-5:00pm
- Tuesday August 7<sup>th</sup>:     *Myron L. and Muriel S. Bender Distinguished Summer Lectures in Organic Chemistry*  
                              *Wilred van der Donk, University of Illinois, Urbana-Champaign*  
                              Tech L211  
                              4:00-5:00pm

**Announcements**

Tobin Marks was elected as a Foreign Member of the Italian National Academy of Sciences, the Accademia Nazionale dei Lincei. The Academy was founded in 1603 and its illustrious members have included Galileo, Pasteur, Einstein, Fermi, Heisenberg, Marconi, and others, and more recently American chemists, NU alum Harry Gray (Caltech) and NU friend, Dick Zare (Stanford). The induction ceremony will be held in early November in the Palazzo Corsino in the Trastevere district of Rome across the Tiber River from the city center.

**Arrivals**

Leslie Hamachi joined the Dichtel Group  
Tae-Woo Kwon joined the Stoddart Group  
Kwahun Lee joined the Odom Group  
Shan Li joined the Dichtel Group  
Wenqi Liu joined the Stoddart Group  
Hongyao Xie joined the Kanatzidis Group

**BIP**

BIP has finished for the 2017-2018 school year. They'll be back in the fall.

**The following companies will be recruiting in the Department of Chemistry:**

August 8-10, 2018: The Dow Chemical Company  
August 13-14, 2018: Corteva Agriscience™, Agriculture Division of DowDuPont™  
August 17, 2018: Abbvie

## Opportunities

**The Department of Chemistry at Virginia Commonwealth University** invites applications for a tenure-eligible, Assistant Professor Position in Analytical Chemistry to begin in fall 2019. Candidates are required to have an established research agenda and clear potential for extramural funding as well as potential for nationally-recognized scholarship in Analytical Chemistry that complements or expands existing expertise in the Department of Chemistry. Teaching will primarily be in undergraduate and graduate courses in Analytical Chemistry. Those candidates with analytical chemistry interest's especially biological mass spectrometry and nanoscience as applied to biology and medicine are encouraged to apply.

A Ph.D. in chemistry is required and post-doctoral experience is strongly encouraged.

Candidates need to submit (1) a cover letter, (2) a curriculum vitae, (3) a document containing detailed research proposals, teaching plans and an estimate of start-up costs to <https://www.vcujobs.com/>. In addition, names of three references must be entered into VCUjobs.com; these individuals will be asked to provide recommendation letters. Review of applications will begin immediately and continue until the positions are filled. Please contact Maryanne Collinson, Search Committee Chair, at [mmcollinson@vcu.edu](mailto:mmcollinson@vcu.edu) for any questions about the position.

**The Department of Chemistry at Virginia Commonwealth University** invites applications for a tenure-eligible, Assistant Professor Position in Physical Chemistry to begin in fall 2019. Candidates are required to have an established research agenda and clear potential for extramural funding as well as potential for nationally-recognized scholarship in Physical Chemistry that complements or expands existing expertise in the Department of Chemistry. Teaching will primarily be in undergraduate and graduate courses in Physical Chemistry. Candidates with physical chemistry interests such as biophysical chemistry or nanoscience as applied to the biological and medical sciences are encouraged to apply.

A Ph.D. in chemistry is required, and post-doctoral experience is strongly encouraged. A well-qualified candidate at higher ranks may be considered, contingent on funding availability. Such a candidate must have a well-developed research portfolio with evidence of multi-disciplinary applications and external funding.

Candidates need to submit (1) a cover letter, (2) a curriculum vitae, (3) a document containing detailed research proposals, teaching plans and an estimate of start-up costs to <https://www.vcujobs.com/>. In addition, names of three references must be entered into VCUjobs.com; these individuals will be asked to provide recommendation letters. Review of applications will begin immediately and continue until the positions are filled. Please contact Sally Hunnicutt, Search Committee Chair, at [sshunnic@vcu.edu](mailto:sshunnic@vcu.edu) for questions about the position.

**Pacific Northwest National Lab** is looking for a postdoc to join their molecular catalysis group. The position will be focused on the design, synthesis, characterization, and testing of molecular catalysts for the hydrogenation of CO<sub>2</sub> and related species. The research will be guided by John Linehan and Eric Wiedner, and it will occur in collaboration with heterogeneous and bioinorganic research teams. Expertise in the synthesis, manipulation, and characterization of air-sensitive compounds is essential, and experience in kinetic measurements of catalytic reactions would be helpful, but is not required.

Applicants can find the full job description and submit their application at <https://pnnl.jibeapply.com/jobs/308177>. The listing will close on August 21, 2018.

### **Pfizer has an opportunity for a Senior Associate Scientist – Applied Synthesis Technologies Group**

All over the world, Pfizer colleagues work together to positively impact health for everyone, everywhere. Our colleagues have the opportunity to grow and develop a career that offers both individual and company success; be part of an ownership culture that values diversity and where all colleagues are energized and engaged; and the ability to impact the health and lives of millions of people. Pfizer, a

global leader in the biopharmaceutical industry, is continuously seeking top talent who are inspired by our purpose to innovate to bring therapies to patients that significantly improve their lives.

#### Role Description

We are seeking a creative, highly motivated synthetic organic chemist to join our Pfizer Global Research and Development laboratories based in Groton, CT. As part of the Applied Synthesis and Technology (AST) Group, the successful applicant will contribute to the execution of parallel medicinal chemistry (PMC) and aid in the synthesis of compound libraries to drive advancement of programs across the small molecule portfolio. He/she will demonstrate a passion for the theory and laboratory practice of synthetic organic chemistry in addition to having a proven track record of productivity in generating high-quality technical and scientific results.

\*Please submit your CV and a research summary with your application. A research summary is required to be considered for this position.\*

#### Responsibilities

- Design, develop and execute PMC protocols to deliver libraries of analogues of preclinical candidates.
- Utilize the technical capacities of the AST laboratories to enhance capacity in supporting Pfizer's small molecule discovery programs
- As a strong team player, work with partner lines to deliver on project goals via collaboration and clear communication (written and oral)
- Build effective partnerships with other research lines, in particular: analytical, medicinal chemistry, biochemistry
- Work with the AST team to understand broader PMC strategy and goals and ensure laboratory capabilities are in place to deliver

#### Qualifications

##### *Educational Qualifications:*

- Bachelor's degree, Master's degree or equivalent.

##### *Training and Experience:*

- For applicants with a BS degree, at least 2 years' experience as an organic chemist post-BS
- Proven track record of productivity and consistent project impact
- Experience in multistep synthesis; experience in methodology development is valued
- Familiarity with analytical instrumentation, liquid handler robotics, and use of a glove box is desirable

##### *Competencies:*

- A skilled synthetic organic chemist in practice and theory: firm understanding of reaction mechanisms and reactivity, familiar with a range of reaction types, conditions and scales, knowledge of purification methods and characterization of organic compounds, especially NMR and mass spectroscopy
- Capable of working independently to solve problems through careful experiment design, data analysis, and mechanistic insight
- Effective communication skills (oral and written); must be able to interact effectively within a multidisciplinary team of colleagues. Builds strong working relationships with fellow scientists
- Self-aware: will seek input from others on ideas and problem-solving; uses others as a resource
- Change agile: capable of quickly adapting to changes in project direction
- Responds well to scientific challenges and applies significant rigor to their own work
- Will scientifically challenge fellow colleagues in a constructive manner

#### NON-STANDARD WORK SCHEDULE, TRAVEL OR ENVIRONMENT REQUIREMENTS:

Some (limited) travel may be required for this role.

**The Chemistry and Biochemistry Department in the College of Science at California State Polytechnic University, Pomona (Cal Poly Pomona)** invites applications for two (2) tenure-track

positions in Organic Chemistry at the rank of Assistant or Associate Professor, commensurate with experience, to begin Fall 2019. Candidates with strong teaching and research interests from any sub-division in Organic Chemistry are encouraged to apply.

Cal Poly Pomona cultivates success through a diverse culture of experiential learning, discovery, and innovation. We demonstrate academic quality, relevance, and excellence through teaching, learning, scholarship, and creative activities with student-centered faculty in an evidence-based culture. Cal Poly Pomona is committed to being the model for an inclusive polytechnic university that inspires creativity and innovation, embraces local and global challenges, and transforms lives.

**The Position:**

The faculty member will teach undergraduate and graduate lectures and laboratory classes in Organic Chemistry. The positions require excellence in teaching and advising, research and scholarly achievements, and a commitment to service to the University. Applicants whose work incorporates a global perspective and a commitment to diversity in higher education are particularly encouraged to apply.

More information on the Chemistry and Biochemistry Department can be found <https://www.cpp.edu/~sci/chemistry-biochemistry/>.

**Qualifications**

- Ph.D. in Chemistry, including completion of graduate-level organic coursework, from an accredited university by September 14, 2018.
- Demonstrated potential for excellence in teaching Organic Chemistry lecture and laboratory.
- Demonstrated commitment to contribute, teach, and engage a diverse student body and multicultural constituencies in an inclusive environment.
- Demonstrated potential to establish an active research program founded in organic chemistry that broadens our current disciplinary expertise.
- Demonstrated ability to contribute to the diversity and excellence of the academic community through research, teaching and/or service.

**Preferred/Desired Qualifications:**

- Postdoctoral experience.
- University/college teaching experience in Organic Chemistry lecture and laboratories courses.
- Capability and interests in teaching upper division and Master's courses in Organic Chemistry.
- Experience or familiarity with techniques that promote student engagement and success.

**Application Instructions**

**Application Procedure:**

A completed application will consist of:

- A cover letter that summarizes how the candidate's teaching and research experiences, and career interests, relate to the duties and qualifications of the described position;
- A curriculum vitae composed of at least those elements specified on the application form;
- A completed application form;
- A statement of the candidate's proposed research plans that details how undergraduates and Master's students will be involved (4 page limit);
- A statement of the candidate's anticipated teaching plans inclusive of (a) a teaching philosophy, (b) prior teaching experiences, and (c) short and long-term teaching interests (2 page limit);
- A separate Student Success statement regarding the candidate's aims and experiences (e.g., successes and challenges) related to working or otherwise engaging with a diverse student population (1 page limit);
- Transcripts showing each degree earned (an official transcript will be required for finalists);
- Three recent letters of recommendation; and
- The names and contact information (with written permission to contact) of two additional individuals who can address the candidate's potential for success in the described position.

The position is open until filled. First consideration will be given to completed applications received no later than September 14, 2018. Early response is encouraged.

General inquiries regarding the application process and Chemistry and Biochemistry Department should be directed to: Ms. Sandra Gutierrez-Magallanez [organicsearch@cpp.edu](mailto:organicsearch@cpp.edu) or (909) 869-3653

**The Chemistry and Biochemistry Department at North Park University** is seeking a qualified adjunct instructor to teach its General Education-level (non-majors) chemistry course: Chemistry in our World. Class lecture and lab sections are in need of an instructor for the 2018-2019 academic year.

*Minimum Requirements*

Master's of Science degree in chemistry or related field;  
Willingness to support the Christian values of the University;  
Some experience in training, teaching or instructing.

*Preferred Requirements*

Prior teaching experience  
Doctorate in chemistry or related field

To Apply: North Park University will accept applications for this position until it is filled. Please submit a letter of interest and CV to [scsilver@northpark.edu](mailto:scsilver@northpark.edu)

**The University of Virginia Department of Chemistry** invites applications for a Postdoctoral Research Associate position in the group of Professor Charles W. Machan. The field of study is for the electrocatalytic reduction of carbon dioxide. This research project will include mechanistic studies and synthetic modification of catalysts. The project is highly interdisciplinary and focused on important energy-related problems.

This is a one-year appointment; however, appointments may be renewed an additional one-year increment, contingent upon available funding and satisfactory performance.

The completion of a Ph.D. in Chemistry or a related field is required by the start date of the appointment. Candidates are required to have experience in organometallic chemistry, homogeneous catalysis, and/or synthetic inorganic chemistry. Knowledge and proficiency in DFT methods, mechanistic studies, electrochemical methods, materials characterization, and time-resolved spectroscopic methods are preferred. The project requires strong organizational, communication, and leadership skills as the candidate is expected to play a prominent role in the laboratory as a mentor for both graduate and undergraduate students and assist in the set-up, organization, and maintenance of laboratory equipment. To apply candidates must submit a Candidate Profile through Jobs@UVa (<https://jobs.virginia.edu>), search on posting number 0622844, and electronically attach the following: a cover letter, a curriculum vitae, and contact information for 3 references.

Questions regarding the position should be directed to Professor Charles W. Machan 434-924-7997 [machan@virginia.edu](mailto:machan@virginia.edu). Further information about Professor Machan and his research may be found at his website: [cwmachan.com](http://cwmachan.com).

Questions about the application process in JOBS@UVa should be directed to: Lin Burton at [lgb4d@virginia.edu](mailto:lgb4d@virginia.edu).

**The Department of Chemistry with the University of Texas, Austin** is developing a pool of candidates for full or part-time appointment to non-tenure track faculty positions for the 2018-19 academic year.

Duties include primarily teaching general chemistry at the undergraduate level. Other teaching assignments are possible dependent on department need and candidate qualifications. Service/committee assignments may also be expected.

#### Qualifications

A doctoral degree in chemistry or a related field and previous teaching experiences is required. Previous university teaching experience is preferred.

#### Application Instructions

Upload current CV and teaching statement to Interfolio. Enter names and contact information for at least 3 references who can write letters attesting to your ability as an instructor.

<https://facultyjobs.utexas.edu/position/35359>

**Pacific Northwest National Laboratory Center for Molecular Electrocatalysis** A postdoctoral researcher is needed in the Catalysis Science Group (Center for Molecular Electrocatalysis) for experimental research. The position will be focused on the design of molecular electrocatalysts, such as oxidation of ammonia, oxidation of alcohols, or other energy conversions.

<https://pnnl.jobs/richland-wa/post-doctorate-ra-center-for-molecular-electrocatalysis/BF765E1475DC4400B4EC3D06C690E861/job/>

#### Minimum Qualifications

Candidates must have received a PhD within the past five years (60 months) or within the next 8 months from an accredited college or university.

#### Preferred Qualifications

Relevant experience includes:

Synthetic and mechanistic inorganic/organic chemistry

Handling and manipulation of highly air-sensitive materials

Proficiency with a range of spectroscopic techniques, particularly NMR

Kinetics and thermodynamics

Preferred skills:

Ability to work in a highly collaborative environment

Proficient in written and verbal communication

Independent and highly motivated

Ph.D. in Chemistry

**Abbott is accepting applications for a Research Information** Scientist A Biomedical and Business Searcher to define and conduct scientific, business, and IP-related searches. Review, analyze and synthesize search results. Present deliverables to clients to enable assessments, and to support decision-making within R&D and overall business processes.

The resume and cover letter can be sent to me directly at: [Anitha.Steventon@abbott.com](mailto:Anitha.Steventon@abbott.com)

Main outputs are:

- Conducts literature searches
- Provides research results with value-added analysis
- Creates and monitors current awareness on industry related topics

### Key Responsibilities

- Defines search strategy and relevant criteria (databases, indexing, keywords)
- Conducts accurate, comprehensive, literature searches in scientific, business, legal and news databases
- Supports project based searching, including searches related to competitive intelligence
- Consults with business, scientific or legal clients to determine research needs and applies appropriate information strategies to solving problems
- Creates and delivers well researched reports that are clearly structured, and that address the issue
- Monitors, updates, and improves knowledge and expertise with respect to information research tools and resources

### Key Skills

- B.S. in Science required, with at least 5-7 years relevant experience in healthcare, corporate or library setting
- MS degree in Library Science and/or a combination of relevant searching experience preferred
- Strong proficiency of secondary research tools and information retrieval techniques using databases and platforms such as Medline, Embase, Inspec, STN, Factiva, Proquest Dialog, Thomson ONE
- Ability to review, analyze and synthesize technical information
- Ability to work with clients to develop solutions that meet expectations and deliver value
- High customer focus, flexibility, initiative, ability to prioritize workload, high accuracy, diligence and a fast responder
- Excellent people skills, ability to work well in a team and in an individual capacity, and willingness to take the lead on initiatives or as assigned
- Demonstrated ability to quickly learn, and continuously develops talents, skills and abilities
- Takes ownership of results, approaching work with a winning attitude
- Excellent problem solving skills, verbal and written communication skills
- Professional attitude to allow agile and proactive responses to changing business demands and opportunities
- Fluency in English (any other language is an advantage)

For additional details and to apply: [https://abbott.wd5.myworkdayjobs.com/abbottcareers/job/United-States---Illinois---Abbott-Park/Research-Information-Scientist\\_30883003-2](https://abbott.wd5.myworkdayjobs.com/abbottcareers/job/United-States---Illinois---Abbott-Park/Research-Information-Scientist_30883003-2)

**The University of Arizona Cancer Center (UACC) and the College of Pharmacy Department of Pharmacology and Toxicology** are seeking an outstanding scientist to serve as Assistant/Associate/Full Professor with a research focus on cancer drug discovery. <https://uacareers.com/postings/28407>

The successful candidate should have a track record of scholarly productivity and demonstrated ability to secure independent, peer-reviewed funding (e.g. NIH R01) with a background in basic or translational research in cancer drug discovery. The applicant should have expertise in medicinal chemistry and a strong focus on chemical-biology as it relates to cancer therapy. Translational research is strongly supported by the Cancer Center with outstanding shared resources in clinical trials, immunotherapy, biostatistics, bioinformatics, mouse models, and tissue acquisition and analysis.

The College of Pharmacy is an essential component of the UACC. The College has strengths in drug discovery, cancer biology, pharmacology and toxicology and interacts with the four outstanding UACC Research Programs: Therapeutic Development, Cancer Biology, Cancer Imaging, and Cancer Prevention and Control. The University of Arizona has multiple faculty and facilities that will enhance drug discovery efforts including NMR, crystallography, and high throughput screening.



The University of Arizona Cancer Center (UACC), is a National Cancer Institute (NCI)-designated Comprehensive Cancer Center dedicated to the prevention and cure of cancer through patient care, research and education.

Outstanding UA benefits include health, dental, and vision insurance plans; life insurance and disability programs; paid vacation, sick leave, and holidays; UA/ASU/NAU tuition reduction for the employee and qualified family members; state and optional retirement plans; access to UA recreation and cultural activities; and more!

The University of Arizona has been listed by Forbes as one of America's Best Employers in the United States and WorldatWork and the Arizona Department of Health Services have recognized us for our innovative work-life programs.

#### Duties & Responsibilities

- Participate in established Division, Department, and Cancer Center programs.
- Participate in translational drug development.
- Actively participate in divisional/departmental program metrics for academic achievement.

#### Knowledge, Skills, & Abilities

- Ability and dedication to develop an innovative research portfolio that fosters positive intra-professional and inter-professional relationships.

#### Minimum Qualifications

- PhD, PharmD or MD degree at a current rank of Assistant/Associate/Full Professor.
- Demonstrated ability to secure independent, peer-reviewed research funding such as an NIH ROI.
- Expertise in Medicinal chemistry AND a strong focus on chemical-biology as it relates to cancer therapy.

#### Preferred Qualifications

- Record of productivity in academic accomplishments as evidenced by publications and successful peer-reviewed funding.
- Ability to lead or contribute to "team science" based interdisciplinary research grants/projects.
- Established expertise in medicinal chemistry and chemical biology.

**General Chemistry Instructor. The Blitstein Institute of Hebrew Theological College** is looking for an enthusiastic and personable adjunct instructor for one section of General Chemistry (4 credits with lab) during Fall 2018. Prefer PhD or ABD, with teaching experience and ability to modify lab experiments.

The Blitstein Institute is a highly conservative college for Orthodox Jewish women, so the perfect instructor will be respectful of the culture of the students. Excellent opportunity to mentor nursing majors in a small class (6-12), and to design your own labs in a well-equipped facility.

The class meets Tuesdays and Thursdays from 1-4 pm at [2606 W. Touhy, Chicago](#), during the Fall Semester from Oct 8, 2018- Jan 18, 2019. There is no winter break, but a personal day is allowed and some flexibility in hours can be negotiated. Free parking, good access to public transportation. Adjunct salary for PhD is \$4000 per semester.

Send cover letter and resume/CV to [erickson@htc.edu](mailto:erickson@htc.edu)

Dr. Laurie Erickson, Chair of Health Science Dept  
Blitstein Institute of Hebrew Theological College



### **Research Scientist - Formulation Development with Cabot Microelectronics Corporation**

will play an integral role in developing nanoparticle-based, high-performance CMP Polishing Slurries used in the production of advanced semiconductor devices. Leveraging your expertise in colloidal and materials science, you will innovate CMP slurry formulation designs by identifying new, effective slurry components, establishing key product characteristics, discovering mechanisms of action, and delivering differentiated performance to our customers.

Responsibilities include the following:

- Design, analyses, and interpretation of experiments that advance slurry formulation performance and mechanistic understanding through robust property-activity relationships.
- Generate innovative solutions to complex problems through the use of multiple disciplines and technical principles. Willing to explore more creative approaches to problem-solving.
- Document and communicate research results effectively including presentations/publications to external stakeholders and filing for patents as needed to protect intellectual property.
- As a good team player, collaborate across R&D and CMC functions by sharing research outcomes, adopting best practices, and driving for continuous improvement.

#### Position Requirements

To be successful in this role, your background should include:

- Proven experience and demonstrated knowledge in at least one of these disciplines: colloidal science, nanoparticle technology, surface science, or material science.
- Post-doctoral experience, in university or industry, with examples of independent research in diverse areas is preferred.
- Demonstrated ability to innovate and drive original ideas within project research scope.
- Results-oriented self-starter, capable of effective project management including setting goals, planning and executing research, and balancing multiple activities.
- Flexible, highly creative, innovative, and committed to continuous learning

Education: Ph.D. in Chemistry, Chemical Engineering, or Materials Science, or related degree/discipline is required.

Cabot Microelectronics Corporation, headquartered in Aurora, Illinois, is the world's leading supplier of CMP polishing slurries and a growing CMP pad supplier to the semiconductor industry. The company's products play a critical role in the production of advanced semiconductor devices, enabling the manufacture of smaller, faster and more complex devices by its customers. The company's mission is to create value by developing reliable and innovative solutions, through close customer collaboration, that solve today's challenges and help enable tomorrow's technology.

Please visit our website at <https://www.cabotcmp.com/> for more information on our company and apply online at <https://cmc.wd1.myworkdayjobs.com/CMCCareers>

**3M is seeking a Research Specialist for the Inorganic and Ceramics Cluster of the Corporate Research Materials Laboratory located in Maplewood, MN.** At 3M, you can apply your talent in bold ways that matter.

#### Job Summary:

The person hired for the position of Research Specialist will develop advanced technologies and products in Inorganic and Ceramics Cluster of 3M's Corporate Research Materials Laboratory. The primary focus of this position will be to develop new thermal management materials for the automotive electrification market space. At 3M, our researchers leverage our 46 technology platforms and capabilities to develop new technologies and products that solve customer problems across many businesses and markets. 3M offers over 55,000 products that are helping customers are used in consumer electronics, hospitals and clinics, industrial manufacturing, and safety products. 3M core material technologies and expertise include advanced polymers, nanotechnology, biotechnology, and ceramics that are used in adhesive tapes,

protective coatings, film technologies, non-wovens, abrasives, and respirators. 3M is applying Science to Life.

Primary Responsibilities include but are not limited to the following:

- Leverage expertise to develop and advance technologies that can be used for new product commercialization opportunities in the area of thermal management materials.
- Protect 3M intellectual property through the filing of new patent applications, publish in top-tier journals, and present at appropriate conferences.
- Collaborate with research teams from corporate research and business labs on building capabilities and applications that use his/her scientific, mathematical, and computational skills.
- Active participation in 3M's Tech Forum
- Collaboration with international laboratories for technology and product transfers.

Basic Qualifications:

- Possess or in the last year of pursuing a Doctoral degree or Post-Doctoral fellow in a Science or Engineering discipline from an accredited university
- Research & development experience in thermal management materials

Preferred Qualifications:

- Ph.D. degree in chemistry, chemical engineering, material science or related discipline with an emphasis on Thermal Management Materials
- Previous experience (3-5 years) in thermal management materials and solutions for the automotive and/or electronics products market space.
- Good skills in data analysis and the use of designed experiments
- Strong scientific and technical acumen, with demonstrated interest and ability to make connections between science/technology and real-world concerns
- Strong problem-solving skills
- Ability to deal with the ambiguity of early-stage scouting and evaluation of new opportunities and the flexibility to change direction as additional information becomes available
- Leadership and networking skills
- Self-motivated and self-directed
- Excellent communication skills (oral, written and presentation)

Location: Maplewood, MN

<https://3m.recsolu.com/jobs/qE7mmzOBAqGWwNXOee7aMQ>

**North Park University, The Chemistry Department** seeks a responsible and skillful Director of Chemistry Laboratories. A full-time, 12-month position, the Director of Chemistry Laboratories will oversee chemistry laboratory teaching support needs, including chemical preparations, laboratory equipment set-up, and lab clean-up. The Director provides maintenance support services for all Chemistry Department instrumentation, computers, and technologies. The Director is expected to consistently teach some laboratory sections for 1000-level chemistry classes and to teach General Chemistry I & II during each summer term.

Essential Responsibilities:

- Oversees chemistry laboratory chemical preparations, equipment set-up, and lab clean-up for all chemistry laboratory classes on a year-around basis
- Required to teach CHEM 1150: General Chemistry I with lab and CHEM 1160: General Chemistry II with lab during June and July summer terms, respectively
- Required to teach at least one section each of our 1000-level introductory laboratory sections (CHEM 1011/1021/1031/1150/1160) during the school year.
- Directly assists the Department Chair in supervising and training adjunct faculty who will teach other 1000-level introductory laboratory sections.
- Contribute to the on-going development and pedagogical improvement of introductory laboratory experiments

- Oversees chemistry instrumentation, including regular and preventative maintenance and software/firmware updates
- Performs weekly liquid nitrogen fills of the department NMR and quarterly liquid helium fills
- Ensures all chemistry department computers and iPads are regularly updated
- Ensures department LabQuest handheld computers are updated and all associated probes and sensors are in working condition and repaired in a timely manner
- Supervises and helps direct departmental student laboratory assistants
- Works closely with Chemical Hygiene officer/Laboratory Safety Officer (CHO/LSO) to ensure that laboratory conditions are in compliance with all hygiene and safety laws, regulations, and best practices
- Assists Departmental Chair, CHO/LSO, and Science Division Office Manager with Chemistry Department orders and deliveries
- Works with Physical Plant to ensure that chemistry laboratories are in proper working condition
- Manages chemical stockroom inventory
- Complete other duties as assigned by the Department Chair

Essential Qualifications:

- Master's Degree or higher in Chemistry or Biochemistry, Ph.D. preferred.
- Experience teaching introductory college-level chemistry laboratories
- Experience teaching college-level General Chemistry course sequence and must be willing to commit to teaching General Chemistry during summer term
- Experience working with others (including students) in a laboratory setting
- Experience maintaining instrumentation and computers
- Excellent time management and organizational skills
- An eagerness to learn and master the wide variety of essential responsibilities listed above.
- Understanding of and personal commitment to North Park's mission of Christian higher education.

*NOTE: Nothing in this job description restricts the supervisor's right to assign or reassign duties and responsibilities to this job at any time.*

<https://www.northpark.edu/employmentapplication>

**University of Calgary Postdoctoral Fellowship, Cost-Effective CO<sub>2</sub> Reduction Catalyst**

**Development, Canada First Research Excellence Fund** As part of the implementation of its CFREF scientific strategy and to address the Grand Challenge aiming to develop next generation of CO<sub>2</sub> conversion catalysis, a project in the production climate neutral synthetic fuels through electrocatalytic carbon dioxide reduction is seeking a team member at the Postdoctoral level.

The successful candidate will work within a multidisciplinary team of synthetic chemists, electrochemists, surface scientists and engineers consisting of 5-7 PI's, 5 PDFs and a similar number of graduate students. The primary aim will be to develop new, selective CO<sub>2</sub> conversion catalysts supported on novel conducting materials. While initially CO will be targeted as a product, other potential fuels will also be within scope.

Accordingly, we seek applications from qualified candidates within two to four years of their Ph.D. degree to fill a Postdoctoral Fellow position with the following specific qualifications:  
 Synthetic inorganic chemistry: Ph.D. in inorganic chemistry with an emphasis on the synthesis and characterization of organometallic and coordination compounds, particularly of the first row transition series. The ability to prepare and manipulate air and moisture sensitive compounds, and characterize them using a suite of modern spectroscopic and analytical techniques. Working knowledge of electrochemistry and electrocatalysis is also strongly desired.

The appointment will be for two years with a \$55,000/year salary (CND dollars); the position also comes with sufficient research support to be managed by the candidate in consultation with the PI members of

the team. In addition, the candidate will be required to work within a team environment and so excellent communication skills and the ability to work effectively with a diverse group of interdisciplinary researchers is a must. As a PDF team member, strong leadership in project management is also expected. Applications should consist of a current CV, a list of two to three referees with contact information and a cover letter indicating your are applying for a position with the *Synthetic Fuels* team as a synthetic inorganic chemist. Please also indicate your availability. The search will continue until the position is filled, preferably by September 1, 2018.

To be eligible as a Postdoctoral scholar at the University of Calgary, the candidate must have been awarded a PhD or equivalent within the five (5) years immediately preceding the appointment. Please review the [Eligibility](#) page for more information prior to applying for this position