

Chemistry Researcher

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Skills Summary

- Proficient with the following instrumentation:
 - IR, UV-VIS, NMR, XRD, DSC
- Limited experience with:
 - HPLC, GC/LC-MS, XPS, SEM, TGA
- Techniques of air pollution measurement (for gases, aerosols, and precipitation)
- Proficient in lab techniques and safety including air-free chemistry
- Ability to work well with teams or with minimal supervision
- Efficient worker who stays on tasks
- Learns new things quickly and follows directions
- Excellent communication skills, very charismatic
- Experience with Microsoft Word, Excel and PowerPoint

Research Experience

Colorado State University, Fort Collins, CO

Graduate Research Assistant, Dr. Chem lab

January 2011 – May 2012

- Synthesize and characterize magnesium nanoparticles
- Test kinetic properties of these nanoparticles for use in hydrogen storage applications
- Tested kinetics using home-built hydrogenation system

Research Scientist, Dr. Professor lab

June – August 2010

- Made various polymer microchips for use in capillary electrophoresis
- Tested chip functionality and troubleshoot problems
- Used chips to detect atmospheric aerosols in the environment

University of Nebraska – Lincoln, NE

Undergraduate Research Assistant

May 2009 – May 2010

- Collected and analyzed dragonfly nymph and northern pike samples for total mercury and methyl mercury
- Recorded data, make reagents, and maintain cleanliness of lab space
- Trained new undergraduate researchers

Education

Master of Chemistry, Colorado State University, Fort Collins, CO

Graduation: August 2012

Bachelor of Science, Chemistry, Concentration Business, University of Nebraska, Lincoln, NE

Graduation: May 2010

Employment History

Department of Chemistry, Colorado State University, Fort Collins, CO

Graduate Laboratory Assistant

August 2010 – August 2012

- Taught proper laboratory techniques, assisted in student experiments and maintained safety in lab

Graduate Teaching Assistant

August 2011 – May 2012

- Led recitation sections to review and practice concepts

Girl Scouts of Wisconsin Council, Mindoro, WI

Business Manager

May – August 2008

- Maintained inventory for camp store including ordering, pricing and display of products
- Handled accounts of the camp store
- Managed paperwork of campers