**Randall J. Petersheim**

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**Summary of Qualifications:**

* Bachelor's of Science in Chemistry
* Six years of experience in a technical service and R&D setting
* National Science Foundation-sponsored undergraduate research program in Cadiz, Spain
* HTML5, CSS, Javascript, Java, Python, Git, Linux
* Microsoft Word, Excel and Access experience; SAP, DataColor, Oncolor

**Education:**

**Millersville University**, Millersville, PA

* Bachelors of Science in Chemistry

**Additional Education**

* Software Engineering Certificate, Montgomery County Community College, currently enrolled
* Corrosion Short Course, Pennsylvania State University, Summer, 2016
* Introduction to Statistics, Harrisburg Area Community College, Spring 2014
* Microsoft Access Level I, Reading Area Community College, September 2013
* Communication, New Horizons Learning Center, July 2013

**Current Employment:**

**Bulk Chemicals, Inc. – Metal Pretreatment**, Reading, PA

Chemist (July 2014 – present)

* Clean and pretreat customers’ metal samples using lab scale equipment to determine optimal process conditions
* Troubleshoot production problems for customers
* Collaborate with other chemists, sales team and customers to research and develop new pretreatment technologies
* Assist in maintaining neutral salt spray cabinets per ASTM B117
* Analyze paint and pretreatment failures from customers to determine cause of failure
* Perform analysis using x-ray fluorescence spectroscopy, SEM, and FTIR
* Perform analysis using neutral salt spray, humidity testing, QUV, and physical testing of paint samples

**AkzoNobel Coatings, Inc. - Powder Coatings**, Flying Hills, PA

Technical Assistant (September 2012 – June 2014)

* Reformulate existing products to realize cost savings and raw material reduction while maintaining performance
* Perform analysis of new pigments and raw materials
* Produce reports for raw material evaluations
* Troubleshoot production problems
* Assist implementation of new behavioral-based safety process at R&D site
* Train new employees on procedures and to safely operate equipment

Contract Laboratory Technician (February 2011 – September 2012)

* Assist chemists on research and development projects in a dynamic environment
* Process and evaluate samples of powder coating to match customer specifications
* Physical and chemical testing (including MEK, HPMF, gel time, impact, gloss, particle size analysis)
* Safely operate equipment and handle chemicals, follow SOPs for all procedures

**Research Experience:**

**NSF-Sponsored International REU**, University of Cadiz, Spain

Undergraduate Researcher (June & July 2009)

* Isolated secondary metabolites from various species of Antarctic lichens under the guidance of several mentors
* Various organic chemistry techniques including Soxhlet extraction, column chromatography, HPLC and GC