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SAMUEL PATTERSON

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Summary

Hardworking chemistry graduate searching for an entry-level chemist position. Have accumulated 100+ hours of laboratory experience to date. Able to maintain lab equipment, determine statistical significance of data, and perform laboratory procedures requiring complex testing. Committed to becoming a valuable team member by applying communication and leadership abilities.

Skills

- Titration
- Lab equipment calibration
- Crystallization
- Thin-Layer Chromatography (TLC)
- Polymer Synthesis
- Protein purification using flow cytometry
- Characterized products with UV/Vis, IR, NMR spectroscopy, magnetic susceptibility, HPLC, gas chromatography & cyclic voltammetry
- Western Blotting
- Gel filtration chromatography
- Distillations

Experience

University Of Milwaukee Chemistry
Department | Milwaukee, WI
Lab Assistant
06/2018 - 08/2018

- Maintained inventory and equipment in neat and professional manner
- Conducted thorough research using various media sources to obtain relevant data for staff requirements
- Managed bacteria cultivation and protein extraction
- Experimented with media variables to optimize results
- Performed various administrative duties, including data entry and document preparation
- Accurately recorded and reported test results according to established procedures
- Maintained inventory of supplies and equipment by creating record of all stock
- Demonstrated testing procedures and equipment to new laboratory personnel

Lawrence University | Appleton, WI
Analytical Chemist

Analysis of Natural Waters: Lawrence University, Appleton, WI Fall 2017

- Designed experiment and conducted fieldwork to collect water samples from Fox River
- Analysis of natural waters (pH, conductivity, dissolved oxygen, total dissolved solids, and phosphate, magnesium, and calcium content)
- Evaluated effectiveness of the method to understand and observe the analytical procedure

Lawrence University | Appleton, WI
Organic Chemist

Project SKYMOOSE: Lawrence University, Appleton, WI Spring 2017

- Attempted to create an anti-malarial drug for international Open Source Malaria (OSM) Program
- Synthesized 4-fluorobenzaldehyde with Chloramine-T and PIDA to obtain the final product

Lawrence University | Appleton, WI
Independent Researcher

- Deciphered inorganic chemistry related to binding of nitric oxide to hemes
- Analyzed of bacterial reduction capabilities
- Theorized altered conditions to optimize results
- Contextualized research in a manner to explain the importance of it, even to non-chemistry majors

Education and Training

Lawrence University | Appleton, WI
Bachelor of Arts in Chemistry
2019