

Ashley Miles

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Education

Masters of Science in Chemistry August 2016-May 2018
Prairie View A&M University-Prairie View, Texas

Bachelor of Science in Chemistry January 2010-May 2013
University of Houston-Houston, Texas

Experience

Graduate Assistant September 2016-present
Prairie View A&M University-Prairie View, Texas

- Assisted professor by independently preparing and executing small-scale experiments to synthesize monomers for amphiphilic polymers
- Collaborated with professors to research journal articles and prepare new experiments
- Facilitated Review Sessions for General Chemistry II
- Assisted Professor in General Chemistry II and General Chemistry I laboratory by answering questions and demonstrating proper instrument or experimental methods.
- Tutored General Chemistry I, General Chemistry II, and organic chemistry

Chemist

Polyorganix, Houston, Texas May 2013-March 2016

- Specialized in producing Polyethylene glycol acrylate and Polyethylene glycol methyl ether acrylate
- Utilized HPLC to analyze polymer molecular weight with a GPC column
- Independently prepared and executed organic synthesis in small-scale experiments and scale up reactions.
- Purified organic molecules through filtration, extraction, column chromatography, precipitations, and recrystallizations
- Analyzed content percent and purity with titrations, high performance liquid chromatography, gel permeation chromatography, and thin layer chromatography
- Ability to read, execute, and understand detailed instruction
- Designed procedures, which included, calculations, observations, and results for reactions.
- Ability to report data and procedures orally and in writing
- Designed a data entry procedure for NMR results
- Lead staff of 1-4 employees in preparing and executing chemical reactions.
- Trained staff how to design, prepare, and execute chemical reactions, and operate HPLC
- Lead production and work days while supervisors were absent.
- Maintained records of ordered chemicals and provided inventory reports of solvents, reserved chemicals
- Responsible for solvent and received chemical inventory
- Purchased chemicals and supplies from University of Houston Research Store

Lab Technician

Polyorganix/Petrotest, Houston, Texas February 2014-October 2014

- Performed ASTM standard analysis on petroleum samples. Tests include sulfur percent, density, viscosity, flash point, total acid number, and water percent.
- Authored and updated procedures for instruments and sample preparations
- Set up, operated, and calibrated laboratory instruments
- Prepared crude oil samples and standards for analysis
- Trained new employees to prepare samples and instrument procedures
- Documented test data for reporting purposes

Activities

- Alpha Gamma Alumnae Chapter Treasurer, Lambda Theta Alpha Latin Sorority Inc., July 2015-May 2016
- Area Recruitment and Retention Coordinator, Lambda Theta Alpha Latin Sorority Inc., July 2014-May 2015
- Area Administrative Coordinator, Lambda Theta Alpha Latin Sorority Inc., July 2013-May 2014