

Michael A. Williams

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Experience

9/2018 – present Healthy Solutions, LLC. Scottsdale, AZ

Chemist

- Managed organoleptic analyses as well as Karl Fischer titrations (Mettler Toledo), FTIR, LOD, Redox titrations, and pH
- Maintained working knowledge of computer programs involving data entry/retrieval of corresponding lot numbers
- Kept documentation of current physical laboratory records and electronic copies
- Assisted in the upkeep of the chemical inventory
- Performed high priority analyses on short notice

8/2012 – 9/2017 EPCOR Water USA Inc. Surprise, AZ

Water Quality Specialist

- Managed lab independently and worked in cross-functional groups to produce reliable, high quality results
- Produced results within acceptance criteria to successfully pass regulatory inspections from county, state, and federal agencies
- Conducted research experiments on treatment technologies and carcinogenic substances
- Effectively communicated data and conclusions to management
- Proposed equipment and procedure change resulting in 25% improvement in data accuracy
- Recommended change in compliance lab resulting in 15%-35% increase in data accuracy
- Increased the quality of finished water by recommending process changes to operators
- Proficient at setting up, operating, maintaining, and troubleshooting complex analytical laboratory instrumentation
- Documented daily records of calibration logs and QA/QC logs
- Maintained highly detailed laboratory notebook
- Interpreted and trended analytical data
- Produced, revised, and kept accurate record of SOPs
- Managed chemical inventory program
- Trained personnel on analytical tests and laboratory SOPs
- Safely handled dangerous chemicals according to regulations and MSDS
- Performed sample prep, UV-Vis, spectrophotometry, dissolution, alkalinity, temperature, pH, conductivity, TDS, TSS, delta weight analysis, turbidity, chlorine, microscopy, and TOC
- Safely performed analytical wet chemistry on test samples according to SOPs

8/2007 – 5/2011 Northern Arizona University Flagstaff, AZ

Lab experience

- Four semesters of lab/microscope work for biology, chemistry and physics courses
- Conducted purification and characterization of unknown compounds using analytical instrumentation
- Knowledge of instrumentation: GCMS, HPLC, sonicator, centrifuge, PCR
- Strong critical thinking, problem solving, mathematics and attention to detail skills

Achievements

- EPCOR Safety Badge of Honor for workplace observation

- Dean's List - High academic achievement; four time recipient
 - Winner of \$1,000 NAU Parents Association Science Scholarship
 - Winner of Signcraft Screenprint Inc. Scholarship; three time recipient
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Education

Northern Arizona University

Flagstaff, AZ

Graduated: 05/2011

Bachelor of Science in Chemistry (Premed Curriculum)

Minor in Biology

GPA- 3.5