

AMANDA E. BORDEN

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POSTSECONDARY EDUCATION (Earned and Currently Pursuing)

Bachelor of Science, Chemistry (ACS-Approved Program)
Georgetown College – Georgetown, KY

Conferred: 2007

Master of Science, Chemistry – Currently Pursuing
University of Louisville – Louisville, KY

Credit Hours Completed:
25 of 30

EMPLOYMENT HISTORY & JOB RESPONSIBILITIES (2008 - Current)

Chemistry Safety and Stockroom Manager

University of Louisville – College of Arts & Sciences
Belknap Campus – Chemistry Department – Louisville, KY

2021-Present

- Complete overhaul and organization of the Chemistry stockroom enabling students and professors to easily locate needed items. Overhaul followed OSHA standards and mitigated the damage that would have resulted from two floods of the stockroom.
- Worked with DEHS to waste over 10,000 lbs. of expired regulated chemicals.
- Conduct periodic safety audits of both the teaching and research labs.
- Maintain electronic safety data sheets (SDS) on all stockroom chemicals.
- Implemented usage of Bioraft software to maintain stockroom inventory control.
- Serve as the technical backup for the Scientific Instrument Specialist and the Financial Coordinator
- Prepare reagents and solutions for all chemistry instructional teaching labs.
- Purchase supplies, chemicals and reagents used in all teaching labs.
- Oversee stockroom operation, monitor spending, and submit/maintain pro-card logs for reallocation.
- Supervises graduate and undergraduate students assigned to the stockroom.
- Receive all Chemistry department deliveries and notify the recipients.
- Current member of the Professional Development Committee and a previous member of the Budget and Planning Committee

Chemist II & Chemical Terrorism Response Team Member

Kentucky Cabinet for Health & Family Services - Department of Public Health –
Division of Lab Services - Environmental Chemistry – Frankfort, KY

2016-2021

- Perform analysis on USDA regulated meat samples for toxins, pharmaceuticals, and pesticide residues by GC-MS using FERN method TOX1.
- Perform testing on air samples for metal analysis by ICP-AES using the method OSHA 125G.
- Validated new Agilent GC-MS for FERN testing.
- Perform Fluoride testing on water samples collected from schools, utilities, and dental offices by Electrode method EPA SM4500F-C
- Perform Mercury testing on Fish tissue samples using EPA 7473 (Mod)
- Coordinator and member of the Chemical Terrorism Response Team
- Participation in terrorist threat screening for chemical, biological, and nerve agents on unknown samples
- Perform analysis for environmental lead using methods EPA SW 846 3050 B, 6010 C & 3051A by ICP-OES
- Participation in multiple proficiency sample analytical testing
- Assisting in preparing monthly QC/QA, General, and OSHA reports
- Assisting in preparing both management and quarterly reports
- Monthly in-house ISO 17025 training
- Entering and tracking all QC/QA data
- Chemical Hygiene Officer for the Division of Laboratory Services
- Wrote the lab wide SOP for the chemical hygiene plan and for chemical handling and storage.

- Training in progress for analysis on FDA regulated fruits/vegetables for pesticide residue by GC-MS/MS via AOAC 2007
- Writing the Division of Laboratory Services hazardous waste SOP
- Assisted Newborn Screening Lab by punching cards and setting up assays for Biotinidase Deficiency, Congenital Adrenal Hyperplasia, Cystic Fibrosis, Congenital Hypothyroidism, Galactosemia, and Hemoglobinopathies

Pharmacy Technician (Part-Time for Supplemental Income – Concurrent with Full-Time) 2016-2017
CVS Pharmacy (Store # 6216) – Louisville, KY

Quality Control Manager/Inside Sales 2015-2016
Advanced Automated Peptide Protein Technologies (AAPPTec) – Louisville, KY

- Was responsible for the Quality Control Department's document controls.
- Created a database of controlled bench sheets for incoming products.
- Performed quality control testing on products and instruments.
- Produced all quotes and sales orders for both US and international customers.
- Worked with customers to minimize lead-time on instrument delivery.
- Scheduled both installation and service calls.
- Staffed AAPPTec exhibitions to drive sales and decimated knowledge of AAPPTec products.
- Worked with production and engineering departments to improve efficiencies in products and service.

Quality Control Chemist II 2008-2015
Avantor Performance Materials Inc. – Paris, KY

- Performed chemical and biological quality control (QC) laboratory analysis in a GMP/ ISO: 9001 facility.
- Worked with multi-compendia bulk pharmaceutical chemicals in accordance with:
USP, FCC, NF, EP/BP, ACS, and JP compendia
- Performed analytical trace metal analysis using both Flame and Graphite Furnace - Atomic Absorption Spectroscopy, Inductively Coupled Plasma Mass Spectrometer (ICP-MS), and Mercury Cold Vapor
- Performed procedures using Rudolph polarimeter for specific and optical rotation, auto titration, UV, Karl Fischer titrations, Gas Chromatography FID, and Infrared FTIR Spectrometer
- Performed numerous wet chemistry tests.
- Performed Bacterial Endotoxin testing (BET) using Lonza Kinetic Chromogenic LAL Assay on raw and finished goods pharmaceutical excipients.
- Tested bulk and finished good regulated multi-compendial pharmaceutical excipient chemicals.

TECHNICAL PROFICIENCY

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| <ul style="list-style-type: none"> ➤ Lonza ELx808 Incubating Absorbance Plate Reader ➤ Prodigy Inductively Coupled Plasma -OES ➤ LACHAT QuickChem 800 ➤ Agilent Technologies Instruments:
Liquid Chromatography/MSMS
Gas Chromatograph-Flame Ionization Detector
Gas Chromatograph-Mass Spectrometer
Inductively Coupled Plasma- MS
Ultraviolet Visible Spectrophotometer ➤ Direct Mercury Analyzer (DMA 80) ➤ PerkinElmer Instruments
Panthera Puncher 9
Genetic Screening Processor 2021
AA/Graphite Furnace 800 Trace Metal Analyzer
Optima 3000 ICP-MS Trace Metal Analyzer
Cold Vapor Mercury Analyzer | <ul style="list-style-type: none"> ➤ Lambda UV/VIS ➤ Karl Fisher Titrator ➤ Rudolf Optical/Specific Rotation Analyzer ➤ Metrohm Autotitrator ➤ Sharp Semi Prep (HPLC) Gradient Purification System ➤ Microsoft Windows 10 ➤ TotalChrome Software ➤ Agilent Mass Hunter Software ➤ QIMS Software ➤ Embassy Software ➤ SAP Software ➤ Extensive Safety and Hazard Training |
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CERTIFICATIONS & CONFERENCES ATTENDED

- Fundamentals of Supervision and Management I & II On-Line Louisville Learns Class – 2020
- KEHP Webinar- Training People How to Treat You – 2020
- KEHP Webinar- Stress Management – 2020
- CDC Working in a Biological Safety Cabinet Webinar Training – 2020
- FERN TOX1 GC-MS training event in Richmond, VA – 2020
- FBI Weapons of Mass Destruction Directorate's First Responder Training – 2018
- ISO 9001 2008 Audit Certification

- National FERN Conference in Washington, D.C. – 2017
- IBC 17th Annual TIDES (Oligonucleotide and Peptide Conference) in San Diego, California – 2015
- American Peptide Symposium's (APS) Conference (24th Annual) in Orlando, FL – 2015