

Ryan Hanes

Chemist/Laboratory Assistant

Chemist with experience in synthetic novel small molecule organic chemistry, customer service, and veterinary medicine. Adept in standard laboratory techniques, critical and detail oriented thinking, and retaining focus in stressful fast paced environments. Seeking to leverage skills in a role that will challenge these skills, cultivate new techniques, and facilitate growth as a professional.

EXPERIENCE

Colorado Biofactory Inc., Colorado Springs, CO

Fermentation Research Associate

July 2023 – May 2024

- Collaborated with cross-functional team members to scale up solid-state fermentation processes from laboratory pilot scale
- Developed analytical techniques using spectrophotometry to analyze product efficacy
- Spearheaded detailed and technical reports & documentation to communicate research findings and progress
- Streamlined manufacturing process by identifying key bottlenecks influencing process efficiency

Organic Chemistry Research Lab (UCCS), Colorado Springs, CO

Undergraduate Researcher

May 2021–Aug 2022

- Achieved effective synthesis methods of novel small organic molecules & polymers for use in published literature
- Practiced common characterization, separation, and purification techniques such as HNMR, solvent extraction & partitioning, & recrystallization
- Maintained the inventory of chemicals, glassware, and other various instruments & items used in lab
- Presented findings at departmental meetings & contributed to research publications

Chemistry Stockroom (UCCS), Colorado Springs, CO

Stockroom Assistant

Aug 2021 – May 2022

- Optimized standard chemical techniques for preparing and testing student laboratory experiments
- Maintained chemistry student labs with necessary equipment and chemicals
- Regulated inventory of chemicals, glassware, and other various items
- Prepared various stock solutions for usage in student experiments during laboratory classes

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SKILLS

Wet Chemistry
Sample Preparation
Organic Synthesis
Standard Techniques
Spectroscopy
Chromatography
Product Purification
Data Analysis
Hazardous Waste Treatment
Titration
R&D
HNMR
IR
UV/Vis
High Res. MS

EDUCATION

University of Colorado Springs, CO

Bachelor of Science in Chemistry (3.58/4.00)

2019–2023

Colorado Springs, CO

OTHER

- Dean's List
 - Multiple Semesters
- Accepted into UCCS Accelerated Master's Program in Chemistry