

CORY MORRIS

Analytical chemist | Research & Development | Focus on sustainable materials

Longmont, CO 80501

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Highly motivated and skilled professional with extensive leadership training and experience stemming back to service with the U.S. Army Reserves from 2001-2007. Meticulous attention to detail and commitment to procedure and protocol in research and analysis with a strong background in chemistry, material science, and data analysis with 4 years of part-time laboratory research experience, 2.5 years on a commercial R&D project, and a published U.S. patent pending. Passionate about exploring innovative technologies and markets for sustainable materials, and keen to contribute to the development of eco-friendly products.

Willing to relocate to: Boulder, CO

Authorized to work in the US for any employer

Work Experience

Research and Development Technician

Magno Seed, LLC - Longmont, CO

August 2023 to Present

Working closely with a dedicated team specializing in sugar beet seed research, development, production, and processing

- Collaborating with professionals to enhance data collection, implement new protocols, augment and maintain existing equipment, and support local product development efforts
- Reporting to the R&D Site Manager to ensure precision, accuracy, and efficiency in site operations
- Contributing to the advancement of agricultural science and research, aiming to innovate and improve sugar beet cultivation

Invention Prototype Development and Patenting

Blagg, D. - Hot Springs, AR

October 2020 to July 2023

Worked under the direction of and in collaboration with local inventor to develop a marketable prototype using Inventor software and a FormLabs2 3D printer (patent pending, Pub. No. US 2022/0184363 A1) in collaboration with regional vendors and manufacturers.

- Consulted with local manufacturers to incorporate an innovative, patentable feature for mass production
- Commissioned to proof and amend the patent application and provide utility patent shaded drawings
- Tasked with pitching the invention to interested parties on behalf of the inventor

Honors Research Assistant

National Park College - Hot Springs, AR

August 2021 to May 2023

Bioprospecting a chemotherapeutic drug in Garland County, AR under the direction of Jason Martin, Ph.D.

- Catalogued and sampled local junipers for quantitative analysis of podophyllotoxin concentration

- Prepared samples, performed extraction, and recovered solvent for subsequent extractions
- Generated calibration curve from industry standard using current HPLC methodology
- Presented findings before a mixed audience of faculty, students, and community members (approximately forty-five in-person attendees plus livestream to remote audience)

STEM Tutor

National Park College Academic Success Center - Hot Springs, AR
January 2018 to May 2023

Collaborate directly with National Park College (NPC) faculty and instructors to ensure course level objectives are met by students from all levels of society and skill levels

- Help struggling students improve critical-thinking skills and problem-solving strategies
- Provide tools and resources to equip students to be self-sufficient

Contractor

Nail Away, L.L.C. - Gulf Breeze, FL
June 2014 to September 2017

Facilitated every aspect of the home remodel on an average of thirty to forty projects annually.

- Managed various sub-contractors for timely and efficient completion whenever necessary
- Utilized local vendors & manufacturers whenever possible and repurposed construction waste

Education

Bachelor of Science in Chemistry

Southern Arkansas University - Magnolia, AR
January 2020 to May 2023

Associate of Science in STEM, Biochemistry

National Park College - Hot Springs, AR
January 2020 to May 2021

Skills

- Chemistry (5 years)
- Knowledge of chemical processes and their interactions, danger signs, and disposal methods (5 years)
- Proficient in sample preparation, data acquisition, and analysis of information obtained from analytical testing techniques such as Atomic Absorption Spectroscopy (AAS), Nuclear Magnetic Resonance (NMR), High-Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), Mass Spectroscopy (MS), Fourier transform infrared spectroscopy (FTIR), and Ultraviolet-visible Spectroscopy (UV-Vis) (3 years)
- Isolation and characterization of small molecule natural products via liquid-liquid extraction, flash column chromatography, HPLC, LC-MS, GC-MS, UV-Vis, NMR, FTIR, TLC, and Polarimetry (2 years)
- Maintain clear scientific records in an electronic laboratory notebook (5 years)
- Perform a variety of biophysical, biochemical, and bioanalytical experiments, including SDS-PAGE, Western Blot, HPLC, binding assays, activity assays, sample testing for PK/PD studies, and formulation of final products (2 years)
- Support hypotheses and validate findings using scientific databases such as the RCSB Protein Data Bank and PubChem (2 years)

- Maintain a detailed and accurate account of all research activities and assist with routine instrument maintenance (3 years)
- Prototyping, 3d printing, Laser Cutting, Computer Numerical Control (CNC) routing, mechanical stress and tensile testing (4 years)
- Experience in non-technical product development, including proposals, recommendation reports, marketing, and branding (10+ years)
- Presented monthly financial reports to chapter members and quarterly reports to national headquarters (1 year)
- Leadership and training certifications with experience in cross-functional teamwork (6 years)
- Advocate for all workplace health and safety policies, safe work practices, and company policies and procedures (10+ years)
- President to the American Chemical Society (ACS) Student Chapter at National Park College (4 years)
- Vice-President of Scholarship to Alpha Beta Psi of Phi Theta Kappa International Honors Society (1 year)
- Project Lead for the construction of the Campus Community Support Box at National Park College (Less than 1 year)
- Treasurer to the Maker Club at National Park College (1 year)
- Interclub Committee Chair to the Student Government Association (1 year)
- At-large Representative to the Student Government Association at National Park College (3 years)
- Phi Theta Kappa Honor's College Leadership Scholar (5 years)
- Regional Vice-President to Oklahoma/Arkansas Region of Phi Theta Kappa (1 year)
- President to Alpha Beta Psi Chapter of Phi Theta Kappa International Honors Society (1 year)
- Vice-President to the Cultural Diversity Awareness Club at National Park College (1 year)
- Block Diagrams (10+ years)
- Computer Animated Drafting (AutoCAD, Autodesk Inventor) (5 years)
- CAD solid models (5 years)
- U.S. patent drawings (Less than 1 year)
- Laboratory Experience (5 years)
- Technical Writing (5 years)
- Calibration (3 years)
- Research & Development (3 years)
- Presentation Skills (6 years)
- Quantitative Analysis (3 years)

Links

[linkedin.com/in/coryemorris](https://www.linkedin.com/in/coryemorris)