

Caycie Etris

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Dedicated to bettering lives through biotechnology practices. Driven and enthusiastic graduate student with hands-on experience in aseptic environments. Highly focused with interest in leveraging strong communication skills and lab competencies to improve biologic quality in a state-of-the-art industry.

EDUCATION

Master's of Microbial Biotechnology

August 2020 – May 2022

NC State University

Certificate in Downstream Biomanufacturing (BTEC) – in progress

Bachelor of Science in Human Biology

August 2016 – May 2020

NC State University – 4.0 GPA

Minor in Microbiology

WORK EXPERIENCE

W.L. Gore & Associates (remote)

September 2020 – Present

Graduate Consultant

- Compiled a business opportunity analysis for entry into the CEA sector.
- Drafted a preliminary business model canvas validated by voice of customer campaigns with industry leaders.
- Performed market segment research and identified potential competitors within controlled agriculture.

Target (Raleigh, North Carolina)

August 2020 – Present

Human Resources Expert

- Displayed a high degree of acceptance and cooperation when working with others that led to a promotion from cashier to human resources within 3 weeks.
- Work with my store's leaders to ensure proper staffing and consistently build a climate of trust and compassion encouraging team member communication
- Successfully brought storewide training under 10% out of compliance through the preparation and circulation of training plans.

Graduate Teaching Assistant (remote)

August 2020 – Present

General Microbiology Lab

- Facilitated student understanding of concepts regarding core microbiology laboratory concepts by instructing General Microbiology Lab.
- Evaluated and recorded grades for examinations, course papers, and interactive assignments.

Arkema Coating Resins (Cary, North Carolina)

May 2019 – August 2019

Microbial Lab Technician Intern

- Independently managed quality control initiative to determine alternate biocide package options for latex product productions through bioburden testing and HPLC analysis.
- Created and presented long-term business plan to 30+ executives and research associates with a total cost savings exceeding \$800,000.
- Showed initiative and optimized work efficiency by working beyond the intern project, allowing my mentor to focus on quality concerns and raw material shortages.
- Maintained proper aseptic technique and adhered to all lab protocols ensuring safety of myself and others as well as accurate results.
- Documented lab results and managed report of findings to quality control, analytical, and research departments.

COURSE PROJECTS

Manipulation of Recombinant DNA (NC State University)

January 2020 – May 2020

- Genetically engineered a mammalian expression plasmid through Gibson assembly to monitor calcium influx in CHO cells and transformed altered bacterial plasmid DNA into *E. coli* to monitor protein expression.
- Exposure to protein purification methods including immunoblotting, SDS-page, and affinity chromatography.
- Documented detailed procedures through an ELN.

LAB SKILLS

DNA isolation/purification
Gibson assembly
Restriction digest
PCR amplification/screen
Gel Electrophoresis
Bacterial transformation
Gram/Acid-Fast stain
Enterotube testing
Bacterial culture/T-streak
Antibiotic sensitivity testing
ELISA/Bradford assay
Spectroscopy
Chromatography
Quantitative analysis
Western Blot

ANALYTICAL SKILLS

Proficient:

MS Suite, Nanodrop

Working Knowledge:

HPLC, GC, SnapGene, ImageJ