

Professional Summary

Results-oriented and detail-driven professional with a strong background in biotechnology and biology. Experienced in conducting data analysis, and collaborating with multidisciplinary teams. Seeking to leverage my skills and expertise in a challenging role within the biotech industry. Approaches responsibilities with attention to detail, and uses general multitasking experience to optimize productivity.

Skills

WORK-RELATED SKILLS

- Safety and Environmental Standards
- Qualitative and Quantitative Data Analysis
- Conducting Time-Saving Experiments

RELATED COURSEWORK

- General Chemistry + Lab
- General Biology, Microbiology + Lab
- Organic Chemistry + Lab
- Human Anatomy + Lab

Biology Lab Skills:

- Aseptic Techniques
- Microscope Slide Preparations

- Electrophoresis

Chemistry Lab Skills:

- Oligonucleotide Synthesis and Deprotection
- Purifications
- Filtrations
- Chromatography

Languages Spoken:

- Basic understanding of German and Mandarin Chinese

Computer Skills:

- Microsoft Word
- Excel
- PowerPoint

Professional Experience

Scientist 1

08/2017 to 03/2024

Revvity, Inc. – Lafayette, CO

- Synthesized and analyzed the quality of siRNA, sgRNA, and CRISPR oligonucleotides, maintaining a 94% on-time ship rate.
- Followed specific guidelines by using ODU values, UPLC, HPLC, and mass spectrometry traces to assess product quality.
- Trained new employees in the Synthesis, Quality Control, and Post Synthesis labs, demonstrating leadership skills.

- Operated and troubleshooted Epoch Microplate spectrophotometer, liquid-handling robot platforms, MerMade 192X synthesizers, and LTQ LCMS systems.
- Collaborated with Process Development team members to conserve JANUS robot disposable tips, resulting in a 93% reduction usage and savings of \$32,900.
- Conducted experiments to reduce the deprotection time of 2'ACE groups on CRISPR oligonucleotides, while retaining high quality mass spectrometry traces.
- Updated and edited standard operating procedures (SOPs) for the Synthesis and Post Synthesis laboratories.
- Presented weekly failure reports to identify trends and reduce product defect rate.

Production Associate II

04/2014 to 08/2017

GE Healthcare Life Sciences – Lafayette, CO

- Synthesized RNA oligonucleotides and conducted quality control analysis, maintaining a 96% on-time ship rate.
- Assisted in editing a program cycle to reduce synthesis coupling time and reagent costs for CRISPR oligonucleotides.
- Adapted to company changes, safety policies, and project prioritization.
- Continued cross training in other areas of manufacturing, such as Post Synthesis, in order to diversify laboratory skills.
- Ran and analyzed data on the LCMS LXQ mass spectrometer, Dionex HPLC, and Waters UPLC instruments.

Production Associate II

04/2005 to 04/2014

Thermo Fisher Scientific Inc. – Lafayette, CO

- Synthesized and analyzed RNA oligonucleotides using 2'-ACE Chemistry, maintaining a 96% on-time shipping rate.
- Trained new employees in the Synthesis and Quality Control labs.
- Implemented strategies to keep product failure rates below 5% during high humidity periods.
- Participated on the HAZMAT team for chemical spill clean-ups and evacuation of employees.
- Edited and wrote standard operating procedures (SOPs) for oligonucleotide synthesis, reagent preparation, and safety precautions.
- Responsible for managing weekly failure reports on Excel spreadsheets.
- Received annual CPR and first aid training.

Education

Bachelor of Applied Arts: Environmental Population Organismic Biology (EPOB)

University of Colorado - Boulder, CO

Graduation: June 2001

