

Jose Maciel-Palomino

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Skills

Soft: Communication, Creativity, Adaptability, Time Management, Teamwork, Patience, Interpersonal skills, Integrity, Networking, Software,

Laboratory: Chromatography, Spectroscopy, Gel Electrophoresis, Cell Culture, HPLC, NMR, PCR, DNA Sequencing, Gene Expression, Mass Spec, CRISPR, ChemDraw, Western Blotting, Extractions (Manual and Thermo Kingfisher), Polymers, Data Processing, Instrument Assembly. Biotechnology, pH Analysis, Titrations,

Languages: English (Fluent), Spanish (Fluent)

Education

Bachelor of Science Biochemistry
Lehigh University, Bethlehem, PA

Aug, 2023

Noteable Courses: Genetics, Cellular and Molecular Biology, Gen Chemistry, Organic Chemistry, Biochemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, General Physics, Calculus, Linear Algebra, Chemistry Research Lab

Work Experience

R & D Engineer Technician | ADA Technologies (Contract)
Centennial, CO

Feb 2023 - May 2023

- Conducted a wide range of tests on batteries and energy storage devices, including performance, durability, and desired specifications that met or exceeded benchmarks
- Operated and maintained laboratory equipment, created SOPs to ensure a smooth operation user to user.
- Assisted in the design and fabrication of prototypes and test cells for new energy storage technologies, identifying trends and performance metrics to further refine products.
- Adhered to all laboratory safety protocols ensuring compliance with regulatory standards and safety of the team.
- Worked closely with multidisciplinary teams including engineers, scientists, and project managers to align R&D activities with project goals and milestones.
- Contributed to the continuous improvement of laboratory process and methodologies.
- Incorporated relevant innovations into research activities to further improve products before final delivery.

Medical Lab Technician | Centennial State Lab
Golden, CO

Oct 2023 - Dec 2023

- Assisted in the preparation of patient extraction, plating, and analysis of patient specimens.
- Operate and maintain laboratory equipment, ensuring accuracy and precision in testing results.
- Data analysis and interpret results, reporting to clinics for diagnosis and treatment
- Follow established protocols, and quality control measures to maintain compliance with regulatory standards.

- Maintained detailed records of tests performed, results, and any relevant information.
- Participated in quality control and proficiency testing to uphold laboratory standards.

Leadership & Experience

Undergrad Research Assistant | Glover Research Lab January 2023 - May 2023
Bethlehem, PA

- **Research and Development:** Conducted quantitative analysis of organic compounds using high performance liquid chromatography (HPLC), successful validation in identifying and quantifying wanted products and further purifying through rotary evaporation.
- User experience and training with Agilent Technologies HPLC Affinity 2. Troubleshooting any errors that arise.
- Developed and optimized reaction protocols resulting in reduction of reaction time and increase in product yield.
- Collaborated with a team of researchers to design and execute experiments, contributing to ongoing research with aim of being published.
- Managed lab to ensure a well-maintained and organized work environment contributing to the efficiency of the workplace.

Independent Research | Behe Research August 2022 - December 2022
Bethlehem, PA

- Conducted independent research to investigate antibody drug conjugates (ADGs)
- Analyzed and interpreted data of current antibody drug conjugates research and presented summaries to primary research instructor

Facilities Supervisor | Taylor Gym August 2022- May 2023
Bethlehem, PA

- Enforced safety protocols and ensured compliance with health and safety regulations to create a safe workout environment
- Generated reports for management to track facility maintenance, equipment usage, and activity tracking.
- Maintained open communication with gym members to address concerns, collect feedback, and ensure positive member experience.

Campus Involvement

- **Student Access and Success Office** August 2021-May 2023
 - Collaborated with other First Gen and POC students to create a safe space for college students and increase inclusion
 - Offered and served as a resource to many, resulting in stronger relationships between cohorts