Grant Mueller

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Summary

Experienced scientist with a broad set of skills in the analytical chemistry space. Motivated to employ my expertise with statistics, programming languages (Python/R/SQL), hard science, and project management skills to lead successful method development in the biopharmaceutical industry. Focused on producing value-add deliverables with cross-functional teams. Developing skills with Microsoft Power platform for flexible business solutions, and Azure for cloud computing/web-apps.

Skills & Projects

Technical: Two plus (2+) years of Python scripting experience, Linux (Ubuntu), statistical analysis and data visualization with R, Structured Query Language (SQL), Jupyter Notebooks, data trending and assay control charting, inventory management, Laboratory Information Management Systems (LIMS), Microsoft Power platform including SharePoint and PowerApps, project planning, forming productive teams with diverse skillsets, and fostering innovation in the lab space.
Laboratory: Analytical method development and lifecycle management including qualification, tech-transfer, optimization, troubleshooting, authoring and revising SOPs, methods for drug product characterization and stability testing including HPLC/UPLC analyses (IEC/SEC/Titer/released N-glycan profiling), ligand binding and residual detection methods (ELISA), cell-based methods for viral neutralization, balancing duties among several high-priority value streams.
Recent projects include:

- Delivered drug-product titer assay control chart used to establish action control limit parameters. Conducted statistical analysis of core dataset while generating analytical data to establish assay critical values. Responsible for monitoring ongoing data collection for process optimization following standard operating procedures (SOP).
- Developed web-based tracking application in collaboration with data and analytics team. Identified solution to a critical business need in the lab space to deliver value-add of an optimized sample submission process. Worked with analytical team members to align app functionality with core asks aimed at alleviating major pain-point.
- Optimized production process residual detection method for high impact process component. Managed the transition to new lab space and integration of software upgrade. Developed analytical method SOP to improve assay performance including accuracy and pass rate, reducing analyst time while boosting productivity.

Education

PROJECT MANAGEMENT INSTITUTE (PMI) Virtual program
Project Management Professional (PMP) certificate. Expected: Q4 2022
Developing expertise with predictive (waterfall), agile, and hybrid approaches to project management.

JOHNS HOPKINS UNIVERSITY Baltimore, MD
Biotechnology (MS), Bioinformatics focus. Expected: Dec 2022
Relevant Coursework: [Adv Cell Biology, Molecular Biology, Biostatistics, Bioinformatics. Next Gen Sequencing]

PENNSYLVANIA STATE UNIVERSITY State College, PA
Biology (BS), Plant Biology focus & Minor in Astrobiology. Coursework: [Biochemistry, Mol Bio, Organic Chem] May 2013

Certifications

Project Management Foundations
LinkedIn, Issued Feb21
Python for Genomic Data Science
Coursera, Issued Jan20, credential ID GWL3L5UQMLLR
A Crash Course in Data Science
Coursera, Issued Dec19, credential ID 5YB8CUAUBU8A

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Experience

GLAXOSMITHKLINE (GSK) Rockville, MD

ASSOCIATE SCIENTIST October 2017 – current

- Executed late-stage analytical development and qualification of protein quality and process residual methods across five biopharmaceutical product streams to support upstream and downstream manufacturing.
- Developed high-throughput laboratory analytical method for mAb released N-glycan profile analysis, and optimized process residual detection method while authoring/revising SOPs and overseeing software upgrade.
- Established leadership and soft business skills via the Project Management Office (PMO) with a focus on forming and maintaining teams, managing stakeholders needs, resources, and finding data-driven solutions.
- Identified subject matter experts and formed connections in other departments to build cross-functional teams that provide value-add deliverables, utilizing proficiency with R and Python for flexible implementation of solutions.
- Recruited associates from other internal departments to act as stakeholders in self-started projects while working with management for identification and approval of use-cases and maintaining laboratory testing responsibilities.

NVITAL (CONTRACT via MSC) - NIAID Gaithersburg, MD
METHODS DEVELOPMENT ANALYST Jan 2017 – July 2017

- Developed automated cell-based assays with the NIAID Vaccine Immune T-Cell and Antibody Laboratory (NVITAL) in collaboration with the Vaccine Research Center (VRC) for the high-throughput screening of vaccine candidates.
- Executed analysis of clinical samples for immunoassays including viral neutralization and anti-drug antibody and developed skills with cell-based assays including flow cytometry, adhesion cell culture, and long-term cell banking.
- Maintained GLP data capture standards and practices under Biosafety Level 2 (BSL2) laboratory conditions, and used aseptic technique while performing cell line passing, cell counting via hemocytometer, and viral transfection.

NOVAVAX (CONTRACT) Gaithersburg, MD
RESEARCH ASSOCIATE II May 2016 – Nov 2016

- Performed technical laboratory processes in a GLP environment for the department of Clinical Immunology, including training on existing assays, clinical testing related activities, and performing assays with high sample throughput.
- Recorded data in specified formats including electronic data capture, and maintained a laboratory notebook ensuring that all corporate, quality, regulatory, and safety procedures/requirements were always observed.
- Analyzed and interpreted clinical and/or experimental data, maintained accurate inventories, ordered supplies, performed routine facility housekeeping, drafted SOPs, wrote reports, and presented data in various formats.

MEDIMMUNE (CONTRACT via EUROFINS) Gaithersburg, MD
RESEARCH ASSOCIATE I Nov 2015 – Apr 2016

- Worked in the department of Analytical Biotechnology as the analyst dedicated to A280 UV-VIS analysis, performing in-process sample testing of biological products to support characterization and process development.
- Performed A280 analysis on the Agilent 8453 UV-VIS spectrometer, on the LabChip DS platform for high throughput sample testing, on the NanoDrop 2000, and trained in the Protein-A Affinity HPLC method.
- Collected data under GMP conditions, handled hazardous materials, utilized the LabWare developmental LIMS for sample and data management, and produced thorough documentation following SOP specifications.

DEPAMPHILIS LAB – PENNSYLVANIA STATE UNIVERSITY (PSU) State College, PA
RESEARCH ASSISTANT Jul 2012 – May 2013

- Constructed a molecular phylogeny of the genus Dendropemon (Loranthaceae) with the dePamphilis Lab at PSU.
- Combined a DNA barcoding protocol with methods for DNA isolation, quantification, amplification via PCR.
- Performed research independently while maintaining notebooks and conducting literature review.

INTRODUCTION TO PLANT BIOLOGY – PENNSLYVANIA STATE UNIVERSITY (PSU) State College, PA
TEACHING ASSISTANT Sep 2011 – Dec 2012

- Taught two sections of BIOL 127 Introductory Plant Biology leading sessions with high class engagement.
- Communicated concepts in plant biology to a range of students with diverse educational backgrounds.
- Held office hours, assessed student participation, prepared quiz materials, graded assignments, proctored exams.