Grant Mueller

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CMC Data Steward |Data Scientist

Detail-oriented and technically proficient data steward and scientist with extensive experience in the biopharmaceutical sector. Expert in managing product and process data integrity across laboratory and manufacturing systems. Skilled in data curation, validation, and engineering with a deep understanding of data harmonization, ontology mapping, and regulatory frameworks. Demonstrated success in cross-functional collaboration, regulatory submissions, and system integration projects. Proven ability to implement FAIR data principles, manage master data, and drive digital transformation initiatives across R&D and commercial manufacturing environments.

Skills

Data Stewardship | Master Data Management | FAIR Data Principles | Data Curation | LIMS & MES | Ontology Mapping | Data Governance | Regulatory Compliance | Python & R | SQL | Data Engineering | Process Informatics | Stakeholder Collaboration | Project Management

Technical Proficiencies

Bioinformatics | Python | CGI | HTML5 | MySQL | Biostatistics | Linux (Ubuntu) | R | Pandas | NumPy | Scikit-learn | Apache Spark ML | AWS | GitHub | Power Apps | Databricks | SPARQL

Recent Projects

Led data standardization and contextualization efforts as site Technical Data Steward to align analytical and manufacturing datasets with BioNTech's global knowledge graph.

Deployed a data extraction and analysis tool via R Shiny on the internal Posit Connect network capable of reading data directly from the server while ensuring data integrity.

Authored SOPs and deployed analytical control strategies that optimized data quality, process understanding, and compliance with local and international regulatory frameworks.

Experience

BioNTech, Gaithersburg, MD — November 2023 - August 2025
Senior Process Analytics Scientist, MS&T

- Served as Technical Data Steward for MS&T/AS&T representing the site for our global network, aligning laboratory and process data systems under global Master Data Management and Knowledge & Information Management (KIM) projects.
- Played a pivotal role in the KIM project defining the controlled vocabularies and mappings between R&D and CMC data as part of the Data Standard and Data Model.
- Drove adoption of FAIR principles for scientific data and implemented data governance best practices in collaboration with global CMC Excellence and Strategy.

- Curated and mapped critical product and process data across systems (e.g., LIMS, MES) to support regulatory filings and internal investigations.
- Led method transfers from AD to QC and integrated cross-functional inputs from PD, MFG, and regulatory groups to ensure data integrity and traceability.
- Built cross-functional teams including senior stakeholders and members of our global network to find creative, data-driven solutions to technical problems.
- Led collaboration on small-scale CGT model project and specification development; leveraged statistical expertise as member of the global specifications committee.

GlaxoSmithKline (GSK), Rockville, MD October 2017 - August 2023
Senior Scientist, MS&T

- Delivered a Microsoft Power App sample request form as part of a digital solution to sample tracking and testing status, that integrated into a larger freezer inventory.
- Executed late-stage analytical method development and data lifecycle documentation to support five biopharma programs.
- Established SOPs and data analysis pipelines for N-glycan profiling and process residual testing; ensured compliance with GMP/ICH guidelines.
- Collaborated cross-functionally on data interpretation and investigations; presented analytical findings for regulatory and internal stakeholders.

NVITAL (Contract via MSC)-NIAID, Gaithersburg, MD January 2017 - July 2017
Methods Development Analyst

- Performed automated, high-throughput immunoassay development for vaccine candidate screening in BSL2 laboratory settings.
- Managed sample tracking and quality control for GLP-compliant data systems.

Novavax (Contract), Gaithersburg, MD May 2016 - November 2016
Research Associate II

- Supported data capture and documentation workflows in Clinical Immunology. Drafted SOPs and presented findings to scientific teams.

MedImmune (contract via Eurofins), Gaithersburg, MD November 2015 - April 2016
Research Associate

- Conducted in-process analytics and documented results in GMP-compliant LIMS. Aligned UV-VIS workflows with SOP specifications.

Education

Master of Science (MS), Biotechnology (Bioinformatics Concentration)
Johns Hopkins University, MD

Bachelor of Science (BS), Biology
Pennsylvania State University, PA