

SIERRA FLORES

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TECHNICAL PROJECT MANAGER

Technical Project Manager with a proven track record of success in spearheading complex projects from conception to implementation. Known for skillfully customizing SaaS platforms and architecting scalable systems to optimize operational efficiency. Proficient in data organization and process improvement, consistently driving innovation to create standardized systems that streamline workflows and elevate business performance. Demonstrated leadership in guiding cross-functional teams towards project success. Passionate about safeguarding data integrity and leveraging technology to achieve strategic objectives, particularly during periods of high growth.

AREAS OF EXPERTISE

Agile Methodology | Data Communication | Electronic Lab Notebooking (ELN) | Lab Information Management (LIMS)
Performance Optimization | Process Improvement | Process Scale-Up & Organization | Project Planning | Quality Assurance & Testing
Requirements Gathering | Resource Allocation | Risk Management | Stakeholder Communication | Technical Documentation

Software & Tools: MS Office | Google Suite | Python | SQL | Slack | Asana | Smartsheet | SolidWorks | Lucidchart

PROFESSIONAL EXPERIENCE

SOUND AGRICULTURE

Process Engineer I: July 2022 – April 2024 (fully remote)

- Led the scale-up of research operations from under 5 to over 40 concurrent experiments, establishing a standardized tracking system and generating Smartsheet Dashboards for workload management.
- Implemented project management systems, including leading meetings, coordinating work, and addressing roadblocks, to enhance process efficiency and team collaboration.
- Customized Lab Information Management (LIMS) and Electronic Lab Notebooking (ELN) systems for 30+ users, overseeing documentation, training, and transitioning from Benchling to Sapio.
- Managed onboarding for all R&D employees to the Sapio ELN and LIMS system, addressing user requests and introducing custom templates for improved data collection and communication.
- Developed a comprehensive Google Sheets template with advanced formulas and automation for streamlined data collection across 250+ experiments.
- Conducted onboarding sessions for all employees to the project tracking system, granting access to Smartsheet Dashboards for growth monitoring and both immediate and long-term planning.

Research Associate I: June 2021 – July 2022

- Balanced multiple projects and workflows operating in parallel, prioritizing both individual and collaborative projects working in 7+ germplasms with 3+ external partners.
- Optimized online tools to organize and maintain accurate records of experimental design and results.
- Collaborated to improve documentation, develop tools, and streamline workflows for the on-demand breeding platform.
- Genotyped thousands of plants and created a unique collection of over 30 Arabidopsis mutations, showcasing exceptional skills in Arabidopsis crosses, seed collection, gDNA extraction, and genotyping.
- Streamlined molecular screening for Sound's RTqPCR pipeline by onboarding 3 new tissue types and 5+ crop types, resulting in a 10-75% reduction in lost samples due to improved RNA quantification protocols.

QUANSYS BIOSCIENCES

Research and Development Technician: February 2019 – May 2021

- Designed and executed experiments for 12+ multiplexed Enzyme Linked Immunosorbent Assays (ELISAs), providing progress updates and producing validation reports for each assay to meet customer specs and internal standards.
- Developed custom assays for 6+ customers, quantifying disease markers, micronutrients, and other vital biomarkers.
- Participated in meetings with customers, design teams, and company management to ensure clear inter-departmental communication throughout assay development phases.
- Developed and implemented a new Quality Management System for SOP version control, ensuring compliance with ISO 13485 and ISO 9001 standards, achieving 2 successful company audits within 2 years.

CERTIFICATIONS & EDUCATION

UTAH STATE UNIVERSITY

B.S. Biological Engineering, Entrepreneurship Minor (2021)
summa cum laude, with honors

FUNDAMENTALS OF ENGINEERING EXAM, OTHER DISCIPLINES

Engineer in Training (2020)