MARYAM RAZA-RATCHFORD

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SUMMARY: Experienced industry professional skilled in process optimization, data analysis, and driving operational efficiency with a passion for innovation management. I now leverage my technical expertise and strategic mindset to shape project strategy and lead successful initiatives.

PROFESSIONAL SKILLS: Lean Six Sigma (Yellow belt), Project Management, Market Research, Strategic Planning, Risk Management, Cross-functional Leadership, Stakeholder Engagement, Decision Quality, Negotiation, Communication, Adaptability, Team Operations & Meeting Facilitation, Patent Evaluation

TECHNICAL SKILLS: Power BI, Asana, Microsoft Office Suite (Word, Excel, PowerPoint, Project), SAS JMP, Salesforce, Trackwise, Data Visualization Tools, Design of Experiments, Collaborative Platforms (Teams, Zoom, SharePoint), Veeva, Biotech-Specific (Downstream Purification, Chromatography, Tangential Flow Filtration (TFF) Systems), Technical Writing

PROFESSIONAL EXPERIENCE

PRODUCT MANAGEMENT SPECIALIST III | THERMO FISHER SCIENTIFIC | *APRIL 2025 – PRESENT*Supporting product strategy, supplier alignment, and portfolio optimization in the life sciences space

- Improve e-commerce platforms for accurate marketing content and seamless customer experience.
- Support portfolio strategy through market and patent analysis to identify new investment opportunities.
- Provide sourcing and technical support to sales, enabling timely fulfillment of customer chemical needs.
- Manage supplier relationships, including business reviews and PCP process implementation.
- Develop sales tools and resources to enhance commercial team effectiveness and customer engagement.

SCIENTIFIC ASSOCIATE II | CSL SEQIRUS | NOVEMBER 2020 – MARCH 2025

Led cross-functional initiatives spanning process development, innovation strategy, and portfolio management

- As SME, directed downstream purification R&D projects from concept through scale-up and tech transfer
- Led onboarding and portfolio integration of Next Gen assets by coordinating across legal, external collaborators, and internal R&D groups.
- Developed and maintained technology profiles, strategic timelines, and portfolio dashboards to support decision-making at the leadership level.
- Revived a stalled facility start-up project, introducing risk mitigation and financial planning processes—resulting in \$0.5M in cost savings.
- Created detailed project roadmaps, SOPs, and technical documentation to ensure regulatory alignment.
- Facilitated cross-functional communication and milestone tracking to enable commercial readiness.
- Presented updates and strategic insights at portfolio governance forums, influencing pipeline prioritization.

SCIENTIFIC ASSOCIATE I | SEQIRUS INC | JUNE 2018 – NOVEMBER 2020

- Led proof-of-concept studies for a novel purification method, improving product purity.
- Managed downstream processing of Influenza batches (2L–200L) at benchtop laboratory and pilot scales.
- Analyzed data to support commercial vaccine production.
- Performed in-process analytics and executed small-scale experiments to troubleshoot bioprocess issues.

CERTIFICATIONS & TRAININGS

- Lean Six Sigma Yellow Belt | Solomon EOS, LLC | 2024
- After Action Review (AAR) | CSL Segirus | 2024
- MS Power BI | Wake Technical Community College | 2024

EDUCATION

MBA | UNC Chapel Hill | SEPTEMBER 2025 - SEPTEMBER 2027

P.S.M – MICROBIAL BIOTECHNOLOGY (MMB) NC STATE UNIVERSITY | *AUGUST 2023 – MAY 2025* Mastering biotechnology techniques, and market research & analysis skills through industry experiences. Integrating scientific knowledge with business strategies & driving innovative solutions in biotechnology.

B.S - BIOCHEMISTRY | NC STATE UNIVERSITY | MAY 2017

Minors – Microbiology, Biotechnology, BTEC Biomanufacturing (Downstream Processing)

MULTI-DISCIPLINE ORGANIZATION SUPPORT | CSL SEQIRUS

- Safety Team Lead (June 2018 September 2020), Support (September 2020 March 2025)
- Site Sustainability/Green Team (January 2023 March 2025)
- First Responder (June 2018 March 2025)
- Global Scientific Practice Policy Champion (June 2023 March 2025)

GRADUATE CONSULTING PROJECTS | NC STATE UNIVERSITY

INSECT BITE-PROOF CLOTHING | VECTOR TEXTILES | AUGUST — SEPTEMBER 2023: Conducted a comprehensive market analysis of non-insecticidal insect bite-proof clothing, identifying key consumer demographics, evaluating demand, and recommending production pathways to meet market needs.

ASEPTIC MANUFACTURING PROCESS | FUJIFILM DIOSYNTH BIOTECHNOLOGIES | SEPTEMBER – DECEMBER 2023: Delivered a competitive landscape analysis of viral vector purification technologies, reviewed global CDMO competitors, and provided strategic recommendations for implementing an Aseptic Manufacturing Process (AMP) to improve operational efficiency.

PLANT DISEASE DETECTION DIAGNOSTICS | WEI RESEARCH GROUP | JANUARY – FEBRUARY 2024: Led the team in evaluating the manufacturing potential of a microneedle patch for crop disease detection, identified funding and collaboration opportunities, and analyzed competitive landscape trends to inform product development strategy.

LICENSING PARTNERSHIPS | COLLABORATIONS PHARMACEUTICALS INC | FEBRUARY – APRIL 2024: Spearheaded the identification and negotiation of licensing partnerships for an Al-driven drug discovery pipeline, conducting detailed market assessments and competitor analysis to strategically position CPI's drug candidates.

OCULAR INNOVATIONS | GLUCK TISSUE ENGINEERING LAB | AUGUST – SEPTEMBER 2024: Led a team in performing a comprehensive analysis of the ocular wound repair technology manufacturing landscape, assessed patenting potential, and developed commercialization strategies to overcome patent-related challenges.

SUSTAINABLE FOOD SYSTEMS WITH BIOSOLUTIONS | NOVONESIS | SEPTEMBER – DECEMBER 2024: Led a team in identifying profitable growth opportunities in the food & beverage sectors, performed in-depth industry and regulatory analysis, and provided strategic recommendations for applying bio-solutions in product development.

REAL-TIME HEALTH MONITORING INNOVATIONS | MMB CAPSTONE | JANUARY – APRIL 2025: Developed a commercialization strategy for a diagnostic device for real-time health monitoring, incorporating patient/provider surveys, KOL interviews, market analysis, and unmet needs assessment. Built a business model outlining revenue streams (licensing, B2B sales, subscriptions, and direct-to-consumer), along with regulatory, IP, and licensing pathways, while addressing adoption challenges and mitigation strategies.