Shrishti Singh, PhD

Strategy Analyst — Innovation & Technology Commercialization

shrsingh@umich.edu · Ann Arbor, Michigan · linkedin.com/in/shrishti-singh-for-dr · Google Scholar

Strategy analyst and bioengineering PhD bridging translational research, technology transfer, and venture building. Founding operations hire for a $250M university BioAI innovation institute; prior life-sciences licensing fellow and biomedical-imaging inventor with a technology licensed to a commercial-stage medtech company.

PROFESSIONAL EXPERIENCE

Strategy Analyst — Founding Operations Hire, Unit X

University of Michigan, Ann Arbor, MI | May 2026 – Present

- Supporting the launch of a $250M BioAI innovation institute co-led by faculty from the Medical School and College of Engineering, reporting to the Operations Manager.
- Benchmarked 40+ peer bio-innovation institutes and 20+ university-affiliated venture studios/funds to inform the institute's "Innovation Engine" venture-building model.
- Operationalized a $1.2M NVIDIA research collaboration — managed selection and launch of seven pilot studies ($200K each) and built Python dashboards tracking GPU utilization KPIs.
- Advised institute naming and vision as part of a 30+ stakeholder communications plan with Bridgeport Consulting; launched the institute's public website.
- Built recurring analytics dashboards and leadership presentations for University of Michigan presidential leadership.

Licensing Fellow, Life Sciences

University of Michigan Innovation Partnerships, Ann Arbor, MI | Oct 2024 – May 2026

- Evaluated life-sciences invention disclosures, supported licensing strategy and negotiations, and advised faculty inventors on commercialization pathways.

Postdoctoral Research Fellow

George Mason University, Fairfax, VA | Feb 2023 – Jun 2024

- Led a team of five on oncology formulation and in-vitro assay work; authored a technical whitepaper in collaboration with PhotoSound Inc.
- Delivered 10+ invited talks and co-authored 7 publications; gave 5+ outreach presentations on technology transfer and non-dilutive funding.

Co-Founder

NIRView Biosciences Inc., Fairfax, VA | Jan 2024 – Apr 2024

- Secured $200,000 in non-dilutive funding and a licensing agreement; built 3 industrial partnerships and go-to-market materials for a photoacoustic-imaging contrast-agent platform.

Entrepreneur Lead

National Science Foundation I-Corps, Berkeley, CA | May 2023 – Jul 2023

- Conducted 120+ customer-discovery interviews validating product-market fit for a targeted contrast-agent technology.

PhD Graduate Research Assistant

George Mason University, Fairfax, VA | Aug 2017 – Dec 2022

- Engineered antibody-conjugated lipid-nanoparticle and polymeric formulations for non-invasive imaging of pre-cancerous lesions and CNS tumors across 4 research projects with 15+ collaborators.

Graduate Research Assistant
University of Bridgeport, Bridgeport, CT | Aug 2015 – Aug 2017

- Developed a biosensor platform for detecting mutated DNA sequences associated with colorectal cancer.

EDUCATION

PhD, Bioengineering — George Mason University
Aug 2017 – Dec 2022

Master's, Biomedical Engineering — University of Bridgeport
Aug 2015 – Jun 2017

Engineer's Degree, Biotechnology — Ramaiah Institute of Technology
2011 – 2015

CORE COMPETENCIES & TECHNICAL SKILLS

Strategy & Leadership
Strategic planning, cross-functional collaboration, stakeholder engagement, grant writing & budget management, market analysis, product commercialization.

Scientific Research
Experimental design, data analysis, research documentation, regulatory knowledge (cGMP, GCP, SOPs, CMCs).

Laboratory & Analytical
HPLC/UPLC, UPLC-MS, TGA, DSC, XRPD, ELISA, immunohistochemistry, SDS-PAGE / western blotting, in-vitro assays, cell culture, in-vivo PK/PD, nanoparticle & hydrogel formulation.

Software
Python (dashboards & KPI tracking), GraphPad Prism, Adobe Illustrator.

SELECTED HONORS & ACHIEVEMENTS

- Commonwealth Commercialization Fund, Virginia Innovation Partnership Corporation — ~$75,000 (2023)
- Patriot Pitch Competition, 1st Place + Mason's Choice Winner, George Mason University — $7,000 (2023)
- Accelerate Investor Conference, 2nd Place Winner, Pitch Competition (2023)
- STAT News — Best 64 Healthcare Technologies in the U.S. (STAT March Madness, 2023)
- NSF I-Corps Regional Grant Winner — $3,000 (2022)
- Outstanding PhD Dissertation, Department of Bioengineering, George Mason University (2023)
- Best Graduate Student Paper, BMES Advanced Biomanufacturing Conference — ABioMet (2023)
- WeSci Women in Science Crowdfunding Award (2023)
- U.S. Patent — "Modified J-Aggregates and Conjugates Thereof," issued 2022

PROFESSIONAL MEMBERSHIPS

Biomedical Engineering Society (BMES) · Graduate Association for Bioengineering Students (President) · International Student Advisory Board, George Mason University · Graduate and Professional Student Association