



Job Title: Senior Manager – Bioprocessing & Scale-Up

Department: Biomanufacturing

Location: IKP Knowledge Park, Genome Valley

Reporting to: Vice President – Biomanufacturing & Scale-Up

About IKP Knowledge Park

IKP Knowledge Park (IKP) is a leading science park and incubator dedicated to advancing cutting-edge R&D in India. We have a pioneering legacy of more than two decades of nucleating and nurturing life sciences and engineering innovation. We focus on sectors like biotech, health tech, and agri-tech, helping innovators move from the lab to the real world. By partnering with government, industry, non-profits, academia and investors, we create a supportive environment for startups and SMEs to thrive and grow. Our work is centred at our 200-acre park in Genome Valley Hyderabad and our Bengaluru maker space (IKP EDEN at Koramangala, Bengaluru), reaching across India and the world through various innovation programs and services. We are at the cusp of next phase of growth which is founded in our belief that science and technology are key to shaping a better tomorrow through deep & expansive societal impact.

Job Summary

This role involves supporting startups in strain engineering, fermentation development, process optimization, and translational scale-up activities, while contributing to the establishment of IKP's translational biomanufacturing platform. The position requires a strong industrial background in industrial biotechnology, precision fermentation, or synthetic biology-driven bioprocessing, coupled with a practical, execution-oriented approach. The role offers an opportunity to drive translational biomanufacturing initiatives, startup-led process innovation, scale-up strategies, platform development, and lab-to-market technology translation.

Key Responsibilities

1. Translational Process Development & Scale-Up

Support strain-to-process integration activities, including fermentation optimization, productivity enhancement, and process robustness. Contribute to the development and optimization of upstream bioprocesses from laboratory to pilot scale, while assisting in process troubleshooting, characterization, scale-up activities, and preparation of SOPs and technology transfer documentation.

2. Startup Translation Support

Work closely with biotech startups to understand technical bottlenecks in strain engineering, fermentation, purification, and process reproducibility. Assist in evaluating scalability, manufacturability, and translational readiness of startup technologies, while helping startups prioritize development pathways for scalable process commercialization.



3. Platform Development & Operational Support

Support workflow planning and implementation activities for IKP's translational biomanufacturing platform. Contribute to establishing standardized translational development workflows and operational frameworks, while facilitating integration of analytical, fermentation, and process development capabilities within the platform.

4. Scientific & Technical Contributions

Track emerging trends in precision fermentation, synthetic biology, metabolic engineering, industrial biotechnology, and sustainable bioprocessing. Support technical reviews, scientific presentations, and preparation of strategic development documents to strengthen IKP's translational biomanufacturing initiatives.

5. Project & Stakeholder Coordination

Coordinate with startups, technology partners, analytical teams, vendors, and collaborators to ensure smooth project execution. Assist in project planning, execution tracking, and technical review activities across multiple translational biomanufacturing programs.

Qualifications & Experience

Educational Background

- M.Sc / M.Tech / Ph.D. in Biotechnology, Industrial Biotechnology, Bioprocess Engineering, Biochemical Engineering, Microbiology or related disciplines.

Experience

- 12–20 years of relevant industrial experience in industrial biotechnology, bioprocess development, precision fermentation, synthetic biology or translational scale-up.
- Candidates with industrial exposure across both strain engineering and process development will be strongly preferred.

Preferred Domain Exposure

- Synthetic biology
- Metabolic engineering
- Recombinant proteins and enzymes
- Precision fermentation
- Industrial biotechnology
- Sustainable bioprocessing
- Bio-based chemicals and biomaterials



Desired Technical Exposure

Strain & Metabolic Engineering

- Genome engineering and synthetic biology tools
- Metabolic pathway optimization
- Adaptive laboratory evolution
- Host engineering and strain development workflows

Upstream & Translational Bioprocessing

- Microbial and/or mammalian cell fermentation
- Fermentation troubleshooting and scale-up
- Bench-to-pilot scale process translation
- Process monitoring and characterization

Additional Exposure (Preferred)

- SOP development and process safety systems
- Process analytical technologies
- Industrial documentation and translational workflows

The Ideal Profile

- Strong industrial understanding of translational bioprocessing and scale-up
- Ability to bridge strain engineering and scalable bioprocess development
- Practical and execution-oriented problem-solving mindset
- Comfortable working with startups and multidisciplinary teams
- Strong technical communication and project coordination skills
- Excited by the opportunity to help build a translational biomanufacturing ecosystem from the ground up

To Apply

Please submit your resume to Mr Raghavendra P, Chief Manager, Admin & HR raghavendrap@ikpknowledgepark.com

Shortlisted candidates will be invited to participate in a technical evaluation discussion as part of the selection process.

This is a rolling advertisement. The position will be closed as soon as an appropriate candidate is hired.