



Research Scientist – Downstream Processing

The Research Scientist position is a high impact role helping Smallfood advance as a leader in scientific innovation and expertise. The successful candidate will support a broad range of functions in the R&D team encompassing down-stream processing and assisting with scale-up studies for new technologies within the research laboratory and pilot plant facilities. The successful candidate will bring technical experience and competence to the Smallfood R&D team.

The Research Scientist will report to the Director of Research and Development and will interface cross-functionally with internal/external collaborators to advance projects and provide timely communication on progress and discoveries.

Key Support Person – Director Research and Development

The primary responsibilities of this role are:

Revenue 70%

- Develop, design, optimize, and execute protein purification and lipid extraction processes
- Develop scale-able and robust downstream processes from benchtop to pilot plant (development to manufacturing scale), non-GMP, and GMP quality
- Apply DOE and other advanced statistical techniques to design experiments related to process optimization
- Identify, evaluate, and implement new and existing technologies to improve process efficiency, control, and understanding
- Analyze and characterize process intermediates and protein products using a range of bioanalytical techniques
- Develop methods to analyze primary and secondary metabolites
- Perform literature and patent reviews
- Operate the core manufacturing process under a GMP approach
- Conduct aseptic culture procedures
- Cleaning, maintaining, and troubleshooting of downstream units
- Sourcing and coordinating purchases of laboratory reagents
- Manage sample preparation for customers and external testing
- Prepare technical documents, batch-records, experimental protocols, and monthly reports on projects and progress

Infrastructure 30%



- Create Standard Operating Procedures for new processes in the laboratory and pilot plant
- Support the optimization of SOPs working closely with the Quality Assurance Team, and ensure SOPs adhere to GMP requirements, where applicable
- Develop research plans for approved projects with appropriate detail related to approach, background literature search, IP search and considerations for FTO and invention
- Expense forecasting for assigned projects
- Support on-going development and implementation of resource management programs to measure and optimize energy efficiency and sustainability

Human Dynamics

- Use company values as a decision-making tool
- Embody company purpose, values and the cultural commitments
- Build healthy and prosperous relationships within team, company and with external partners/collaborators

Ecosystem

- Contribute to the implementation of approved business systems and process across the ecosystem

The qualifications and skills required to be a good fit for this role are:

- Ph.D. or M.Sc. in protein and lipid chemistry, chemistry, bio-organic chemistry, or biochemistry; 1-3 years industry or equivalent post-doctoral experience in protein purification, lipid extraction, analysis, and characterization
- Solid theoretical knowledge and hands-on experience in development and execution of protein purification and analysis techniques
- Hands-on experience with enzyme hydrolysis, protein purification, lipid extraction, multiple modes of chromatography (HPLC, GC, etc.), diafiltration, and centrifugation
- Work well independently and in a team environment
- Excellent written and verbal communication skills
- Keep meticulous laboratory and process records
- Techniques for reagent, solution and equipment preparation and handling to ensure aseptic technique at laboratory, development, and production scales
- Work in compliance with SOPs, BPRs and other documents for execution, control and recording of GMP processes



- Scale-up and development of protein purification methods
- Bench-scale protein handling and purification techniques; ability to manipulate micro scale and large scale quantities of material/product
- Self-motivated, accountable, inquisitive, and have excellent organization and communication skills

Our Ecosystem values the diversity of the people it hires and serves. Diversity in our Ecosystem means fostering a workplace in which individual differences are recognized and respected. We encourage and welcome applications from all qualified candidates.

Please email careers@smallfood.com to apply.