



JOB OFFER NOTICE

Job Title

Upstream Processing (USP) Engineer / Upstream Product Manager

The Position:

We are looking for an experienced Upstream Processing (USP) Engineer / Upstream Product Manager with an in-depth knowledge of fermentation and biocatalysis technologies at (pre-)commercial scale. The candidate will define and optimise on behalf of IBF and/or its clients the overall process from feedstock intake to the production of the final products for a number of bioprocesses yet to be validated and/or to be optimised based on project needs.

The Company:

The Irish Bioeconomy Foundation (IBF) is Ireland national bioeconomy cluster and national association. Our mission is to promote “To promote the conversion of Ireland’s natural land & sea resources to high value products for the development of a sustainable bioeconomy that is globally competitive.” We will do this by helping our members to:

- Facilitating relations among innovative agribusiness, marine, energy and bioeconomy champions;
- Generating synergies between different sustainable initiatives;
- Enabling innovative projects to reach their next level;
- Creating an integrated ecosystem of converging assets and ambitions.

The Irish Bioeconomy Foundation (IBF) is now building, a new center-of-gravity, for agribusiness, marine, renewable energy, and bioeconomy players in the hearth of Ireland, featuring:

- **INNOVATION CLUSTER:** the National Bioeconomy Campus (NBC), where our members and partners can aggregate to build new initiatives, converge interests and receive trainings;
- **DEMONSTRATION PLANT:** the Irish Bioprocess Demonstrator (IBD), where our clients can pilot and demonstrate their innovative biotech and green chemistry solutions with the latest technologies and know how;
- **EUROPEAN LAUNCH-PAD,** where we connect the Irish Bioeconomy Public-Private Network (IBPPN) to European funding, non-Irish businesses and international talents.

In preparation to it’s pilot plant completion, IBF seeks to develop a pipeline of clients and support services, providing its expertise at the client premises, including setting up, optimising and managing bioprocesses at progressively higher scales from laboratory to pilot to demonstration to commercial scale.

Key Qualifications:

Science/Engineering based qualification in Chemical Engineering, Biotechnology, Biochemistry, Brewing, & Distillation. At least 2 years relevant industrial in some or all of the following: fermentation optimisation, chemical and biochemical analytical technologies, industrial scale up, fractionation or separation technologies. Excellent bioprocess scientific knowledge and (some) experience in commercial scale operations is a requirement. The position requires the ability to quickly and iteratively move from hands-on work on the bioprocess plant to bioprocess design and techno-economic evolution will be much appreciated. Experience in supporting Equipment Design is a plus.



Key Responsibilities:

- Deliver scale up of pilot process & fermentation to industrial scale
- Deliver accurate, relevant and interpretable process data
- Development/optimisation of a cost effective biorefining process
- Technical project management, project risk assessments in delivery of industrial process
- Exhibit aptitude for planning and delivering projects to completion and within budget
- Compilation of project updates and presentation of progress on a regular basis
- Provide input into CAPEX budgets and OPEX finances
- Proactively identify and deliver process optimisations opportunities
- Keep technically abreast of relevant developments in the field to identify new opportunities

Specific technical competences:

- Microbial fermentation, biorefining and optimisation. Enzymology, Fermentation technology. Experience of Batch or continuous processing
- Pilot and commercial scale separation technologies, centrifugation, filtration, evaporation & distillation, chromatography, liquid-liquid extraction
- Analytical techniques including, HPLC, MS, wet chemistry techniques, nutrient analysis
- Generation of processing mass balance, process data analysis and interpretation
- Ability to execute pre-commercial manufacturing processes according to established work instructions and co-developed Standard Operating Procedures

Specific soft skills:

- Report writing with commercial understanding
- Results driven, attention to detail, ability to work under pressure, escalate issues as appropriate
- Hands on approach and inclination to to provide assistance and/or support maintenance, engineering, quality or other colleagues
- Maintain a high level of personal expertise and working knowledge of all aspects of the manufacturing process and process equipment through continuous training and development
- Liaise with other groups and individuals to ensure planning of tasks is effective and linked into the manufacturing process plan
- Ability to manage client relationships successfully

Reporting:

- Reporting to the Irish Bioeconomy Foundation's Chief Executive Officer. When operating from clients premises, the candidate will be reporting on daily basis to the client, and on weekly basis to IBF's CEO.

To submit your application, please send your CV and Cover letter to:
info@bioeconomyfoundation.com, with email subject: **IBF-USP-2019-<name surname>**.

The selections will take place in waves every 15 days, starting from the 1st of August 2019, till the right candidate is found, selected and recruited.

Good luck!