Placement Student (Biotechnology) – Job Description

Role Purpose:

To contribute to the delivery and realisation of project work through preparation, development, research, testing and analysis work in line with technology team requirements. Responsible for supporting the smooth running of laboratories, to allow other scientific staff to focus on the design and technical delivery of projects.

Key Responsibilities:

- Embrace and role model the desired behaviours to exemplify our Company values, promoting an ethical, positive company culture.
- To maintain consistent and documented compliance with all relevant Safety, Health and Environmental (SHE), Good Manufacturing Practice (GMP), Data Integrity (DI), quality and best practice requirements.
- To be responsible for discussing project needs; set up, plan, and execute scientific experiments and report results to agreed timescales.
- To be responsible for agreeing weekly work plans with line manager and project manager(s) and delivering plan to agreed schedule.
- To be responsible for providing clearly documented records of technical data, decisions, methodologies, calculations, and software use in an agreed format.
- To contribute to the delivery of Biotechnology projects through the delivery of microbiology/fermentation/downstream processing knowledge.
- To be responsible for general laboratory housekeeping
- To be responsible for liaising with the warehouse for collection of deliveries.
- To be responsible for the purchasing of chemicals, equipment, and other items as and when required.
- To share professional knowledge with colleagues and be responsible for own continuous professional development.
- To contribute to a culture of continuous capability development within teams in alignment with company strategy and project deliverables.
- To support the development of scalable fermentation processes from shake flask to 10000 litre reactor scale.
- To support the process development and scale-up of bio-product recovery and purification operations from laboratory to plant scale.
- To support the set-up, operate and monitor microbial fermentation processes under batch, fed batch and continuous conditions following predefined protocols
- To support the routine maintenance of fermenters, identifying and escalating issues which may impact their performance and availability

- To support the design of experiment (DOE) to study the effect of multiple variables on fermentation performance and the effects of interactions between variables.
- To support with internal and external customers as required identifying and understanding their needs and contributing to the design and delivery of agreed outcomes within agreed timescales.
- To work closely with business development and project delivery teams in order to understand, interpret and communicate customer needs to plant operations teams.

Direct reports: No direct reports

Person specification

Education / Qualifications:

Essential:	Desirable:
Studying towards a Degree in Biological Sciences / Biotechnology / Biochemistry / Biochemical Engineering or a related field.	

Competencies and behaviours	
Leadership (Core)	**Decision Making (Core)**
• Respects and values our diverse people and the differing talents, skills, and backgrounds that they bring to projects and day-to-day work. • Has a positive influence on those they are in contact with. • Gains the respect and confidence of colleagues and supports them in achieving their goals and targets. • Aligns their behaviours and actions to our PRIDE values, vision, and goals.	• Within area of expertise recognises, identifies, and defines problems. • Generates and evaluates alternatives, draws conclusion, and analyses risk. • Takes timely and correct action using established methods to ensure effective solutions are implemented by working as a team and with and focused outcomes to be delivered.
Communication (Core)	**Developing self and others (Core)**
• Communicates in a clear and concise manner, covering all relevant points in a timely manner. • Uses the appropriate route and format to communicate.	• Knows own career aspirations and clearly communicates them to

• Confirms understanding of others communication. • Asks questions to understand other people's viewpoints, keeping an open mind and embracing new ideas.	relevant colleagues whilst actively working to achieve goals. • Sets personal development goals and deploys strengths to achieve them. • Takes responsibility for one's own performance and actions and invites and incorporates feedback from a variety of sources. • Regularly reflects on own capabilities to identify development priorities.
Collaboration (Core)	**Delivery (Core)**
• Establishes effective working relationships with other colleagues. • Builds and maintains a network of internal and external contacts. • Actively seeks, values, and incorporates different views and ideas to broaden their prospective, embracing differing perspectives and unconventional ideas.	• Plans, prioritises, and leads own area of work to deliver specified and agreed outcomes (time and standard). • Accurately scopes out length and difficulty of tasks, and repeatedly estimates correct amount of time needed for tasks. • Refers to lessons learnt from other projects/ tasks with related scope. • Acts with minimal supervision or direction by being purposely empowered to make decisions when needed. • Pays attention to detail and delivers accurate and high-quality outputs.

Knowledge and Experience:

Essential:	Desirable:
Working knowledge and broad experience of IT packages, particularly Outlook, Word, Excel, and PowerPoint.	Experience in: • Operation of lab equipment, (e.g., dissolved oxygen and conductivity meters) • Scheduled preventative maintenance/calibration of lab

	equipment and instruments and maintain equipment logs. • Calibration and maintenance of lab equipment. • Documentation of lab equipment maintenance procedures and schedules. • Maintained responsibility of microbiology lab tasks • Managing and overseeing laboratory work.
Knowledge of microbial cultivation Basic knowledge of microbial fermentation. Willing to perform repetitive tasks	• Proven experience in aseptic technique. • Experience in microscopy for microbial identification. • Experience in sample collection and analysis. • Experience in preparation of microbial growth media • Experience in operation of bioreactors; assembly, cleaning, and operation • Develop and plan methods to prevent the spread of contaminations.
Good analytical skills and numerical skills.	Maintaining accurate and up-to-date records Experience of writing up research findings and reports

Signature of Job Holder By signing this you confirm you have read, understood, and agree to work in alignment with the above job description.	
Printed name **Signature** **Date**	