

## Job Description

Job Title: Upstream Process Technician

### Purpose and Scope of Position

The Upstream Process Technician carries out all protocols related to the culture of cells producing the protein therapeutic, from inoculation through harvest. The Upstream Process Technician will take samples at various time points throughout the upstream process and provide these to the QC Technician for testing. The Upstream Process Technician is responsible for monitoring cell health and determining when to scale up the cell culture and when to harvest the cells for protein purification.

### Duties and Responsibilities

- Use aseptic technique at all times.
- Responsible for cell culture expansions – colony inoculation through culture scale-up
- Responsible for harvest operations – centrifugation, cell lysis.
- Complete all required documentation in an accurate and timely manner.
- Communicate with team members in a timely manner.
- Identify, escalate, and report deviations.
- Adhere to safe working practices.

### Vocabulary

**QC** - Quality Control - You will learn about what quality control is from the QC Technician job description and gain a better understanding as your team works through the biomanufacturing kit curriculum

**Aseptic Technique** – Specific practices and procedures used in the laboratory to reduce the contamination from unwanted microbes.

**Colony Inoculation** – The procedure by which a the bacteria contained in a single colony are moved into liquid media.

**Centrifugation** – The process of using a centrifuge, typically to separate fluids of different densities or liquids from solids.

**Lysis** – The process of breaking cells apart.

**Documentation** – This term refers to all documents that record information about the biomanufacturing process. This includes: employee training, batch records, product testing etc.

**Deviations** – Results that are incorrect or unexpected that occur during the biomanufacturing process.

**Escalate** – Report to a higher authority.

