

DEPARTMENT: Operations - Vaccine Manufacturing

JOB TITLE: Cell Culture Scientist



REPORTS TO: Vaccine Manufacturing Manager

PURPOSE: This is a full-time role in the production of viral antigens used to develop the First Defense® product line and will be responsible for executing, troubleshooting, and continuously improving cell culture-based manufacturing processes in a regulated environment.

PRODUCTS: First Defense® Product Line: USDA-licensed biologics and functional feed ingredients for the prevention of neonatal calf scours, providing one-of-a-kind immediate immunity through hyperimmunized colostrum antibodies.

GEOGRAPHY: Portland, Maine

IDEAL CANDIDATE: Hands-on experience with cell culture systems, viral propagation, and biotechnology manufacturing. This individual will be expected to independently execute manufacturing operations, support investigations, and identify root causes of process issues and contribute to process improvements.

RESPONSIBILITIES: The following key responsibilities, although not necessarily an exhaustive list, are intended to represent an accurate reflection of the role.

- Perform cell culture operations including cell expansion, maintenance, infection, harvest, and process monitoring.
- Execute manufacturing processes in accordance with approved SOPs, batch records, and cGMP requirements. Complete manufacturing documentation accurately and contemporaneously.
- Support viral propagation and antigen production processes utilizing mammalian and insect cell culture systems.
- Maintain aseptic techniques and perform operations within biosafety cabinets and controlled laboratory environments.
- Troubleshoot manufacturing and process-related issues to support consistent product yield and quality.
- Participate in process optimization and continuous improvement initiatives.
- Maintain laboratory equipment and ensure readiness of manufacturing suites.
- Collaborate effectively with cross-functional teams to support production schedules and project goals.

JOB REQUIREMENTS:

- Bachelor's degree in Biology, Microbiology, Biotechnology, Biochemistry, Cell Biology, or a related scientific discipline.
- 2–5 years of hands-on cell culture experience in an academic, biotechnology, pharmaceutical, or manufacturing environment.
- Demonstrated proficiency in aseptic technique.
- Strong technical troubleshooting and problem-solving skills.
- Experience managing multiple concurrent activities in a fast-paced environment.
- Excellent written and verbal communication skills.
- Ability to work Monday-Friday with overtime and weekend/holiday work as needed

PREFERRED BUT NOT REQUIRED:

- Experience working in a cGMP-regulated biotechnology or pharmaceutical environment.
- Experience with viral culture, viral propagation, vaccine manufacturing, or viral vector production.

COMPENSATION: ImmuCell will offer a competitive compensation package and a comprehensive benefits program, including 401(k).