



**Title: Senior/Principal Process Development Engineer (CAR-T/Gene Therapy)**

**Location: Worcester, MA**

**Reporting to: Senior Director Process Development**

**Join our team!** At Mustang Bio we are driven by people. The patients we serve and the team we are building are the driving forces behind our mission to deliver life-changing first-in-class cell and gene therapies to patients with genetic diseases and aggressive forms of cancer.

The successful candidate will join the Process Development group in the production of genetically engineered T cells and hematopoietic stem cells, execution of process development experiments, participation in the evaluation of new technologies, and support of the process transfer to manufacturing. The position represents an excellent opportunity for career development, working closely with experienced CGT industry personnel in a fast-paced and highly collaborative environment.

**Responsibilities:**

- Develop, scale up, optimize, and transfer CGT manufacturing processes
- Work independently to improve CAR T and HSC manufacturing processes through designed experiments using innovative approaches
- Perform and analyze in vitro cellular assays such as flow cytometry to support in-process analysis for PD studies
- Direct BLA-enabling experiments to determine process windows for Critical Process Parameters
- Develop and author protocols, SOPs, risk assessments, and other cGMP documentation as needed
- Both hands-on and supervision of laboratory work required
- Guide and mentor lower-level personnel in design and execution of experiments
- Analyze data using commercial software (JMP, Minitab, Excel, etc.) and communicate results to cross-functional team members (PD, manufacturing, analytics)
- Write clear and concise research reports

**Education & Experience:**

- Advanced Degree in Biological Engineering, Chemical Engineering, Biological Sciences, or related field
- 5+ years of experience in biotechnology industry
- 7+ years of experience in research, including academics
- Proven ability to structure, plan, and execute on complex projects
- Significant background in HSC and/or T cell biology
- Excellent organizational and problem-solving skills, with demonstrated ability to extend these across a cross-functional team and implement efficient operational processes
- Expertise in aseptic processing of mammalian and primary cell cultures, transduction and/or editing of mammalian cells, and experience in closed system process development required
- Molecular biology and/or flow cytometry experience desirable
- Support cross-functional projects and establish strong relationships with research, analytical and manufacturing stakeholders