

Job Title:	Fermentation Engineer	Job Category:	R&D Biology
Department/Group:	Microbiology / Fermentation	Salary Range:	\$100K - 120K / yr + share options
Location:	Louisville, CO	Travel Required:	Limited
Grade/Level:	Engineer I	Position Type:	Full Time

Summary

Crysalis Biosciences has an immediate opening for a fermentation engineer at our Louisville, Colorado R&D site. This position will be responsible for developing the company's fermentation capabilities from the 500 ml scale to the 20,000 L scale. Additionally, this position will work closely with Senior Molecular Biologists overseeing strain construction efforts and Senior Chemical Engineers overseeing downstream processing to build complete end-to-end bio-product demonstration and execute piloting campaigns. The candidate will be responsible for spearheading development of fermentation protocols at scale using both anaerobic, microaerobic, and aerobic production hosts. Once protocols are developed, this position will help train manufacturing teams.

Please submit a resume and cover letter to <https://crysalisbio.com/careers/> to be considered.

Job Description

ROLE AND RESPONSIBILITIES

- Function as a key contributor on new customer funded projects and initiatives.
- Independently develop robust fermentation protocols using anaerobic, microaerobic, and aerobic production hosts
- Development, execution, and analysis of experimental fermentation optimization campaigns and demonstrations up to 20,000 L in scale.
- Mentor R&D, Quality, and Engineering staff on quality by design, and productivity improvements.
- Work closely with the downstream processing team to produce minimum viable products for clients
- Work with CTO to understand cost models of new and existing projects.
- Interact with customers on new product scale ups, and existing product complaints.
- Prepare and submit investment requests for new R&D capabilities in Fermentation
- Assist in project strategy development and review.
- Setup and operation of fermentation bench scale bioreactors
- Strong scientific writing skills
- Proficiency with HPLC and GC-MS analysis methods

ORGANIZATIONAL RELATIONSHIPS

- Reports directly to the organization's CTO and lead biologists

QUALIFICATIONS AND EDUCATION REQUIREMENTS

- B.Sc., M.Sc., or Ph.D. in microbiology, bioengineering, or related field.
- 1-2+ years in applied fermentation in the biochemical and biofuels industries.

PREFERRED SKILLS

- Good communication skills and the ability to work well with people at all levels, educational backgrounds, etc. essential.
- Strong organizational skills required.
- Strong technical background and ability to troubleshoot and solve complex problems.
- Strong desire to learn new skills in large scale fermentation and biological manufacturing
- Knowledge of molecular and strain engineering techniques.
- Experience with bench scale Eppendorf bioreactors.

ADDITIONAL NOTES

- Company health insurance plan is provided

Reviewed By:	E.M. Karp & S. Gandhi	Date:	1/22/2025
Approved By:		Date:	
Last Updated By:		Date:	