

Name of Employer: LanzaTech, Inc.
Position Title: Scientist
Job Location: 8045 Lamon Avenue, Suite 400, Skokie, IL 60077
Hours: Monday – Friday, 8:00 am to 4:00 pm

Summary of Duties:

- Independently design, plan and analyze experiments and complete project subtasks from start to finish.
- Develop timeline and resource requirements for experiments.
- Develop new ideas and concepts through collaboration with others and study of relevant literature.
- Assist in devising experimental plans that best support fermentation modelling efforts.
- Convert experimental data to 'best-fit' mathematical models.
- Communicate experimental plans and results through regular updates and presentations.
- Participate in meetings to discuss obtained data.
- Review relevant literature including the latest publications on the subject.
- Prepare and setup bench-top bioreactors and cultivate microorganisms under anaerobic conditions.
- Update and maintain the fermentation data collection file, ensuring data quality and integrity.
- Follow the fermentation course closely by regular sample taking and ensure metabolite composition (HPLC) and gas composition (GC) are integrated in the data collection file.
- Take regular OD and Flow Cytometry measurements to assess live/dead ratio of experimental cultures.
- Prepare media according to current recipes for bacterial cultivation and maintain a record of the media batch preparation and swap over.
- Contribute to team/project meetings with ideas and suggestions and curiosity to keep up with developments.
- Assist in upgrading data capturing methods and files.
- Maintain laboratory books and records to the level required by LanzaTech's patent attorney. Report new IP to group leader and in-house patent attorney.
- Contribute to and adhere to all safety standards and practices.
- Identify and address areas for improvement.
- Write timely reports, SOPs, patents, grant applications and publications.

Qualifications:

Master's degree in Biotechnology, Microbiology, Biological Engineering, or a related field of study AND Two (2) years of experience in the job offered or related occupation in which the required experience was gained. In lieu of a Master's degree in Biotechnology, Microbiology, Biological Engineering, or a related field of study AND Two (2) years of experience, the employer will also accept a Bachelor's degree in Biotechnology, Microbiology, Biological Engineering, or a related field of study AND Five (5) years of experience in the job offered or related occupation in which the required experience was gained. Must also have demonstrated experience with: Gas fermentation in CSTR, Laboratory safety standards and practices, Python, PowerBI, MATLAB, Jupyter Hub, Flow Cytometry, Microsoft Office Suite, and Scale-up commercial gas fermentation operations concepts.

To Apply:

To apply, submit a resume to:
<https://illinoisjoblink.illinois.gov/>, email resume to hr@lanzatech.com OR mail
Chad Thompson, 8045 Lamon Avenue, Suite 400, Skokie, IL 60077. Must
reference Job Title & Job Code: 000062.