



Faculté des sciences et de génie
Département de génie chimique

Ph.D positions in Biomanufacturing

Several PhD projects are available within the research teams of Professors Bruno Gaillet (<https://www.fsg.ulaval.ca/corps-professoral/bruno-gaillet>) and Alain Garnier (<https://www.fsg.ulaval.ca/corps-professoral/alain-garnier>) of the Department of Chemical Engineering at Laval University. These biomanufacturing-focused projects are supported by the Eastern Canada Pandemic Preparedness Hub (<https://ecapph.openum.ca/en/>), which includes several government and industry partners such as the National Research Council of Canada (<https://nrc.canada.ca/en/research-development>) and the companies Feldan Therapeutics (<https://www.feldan.com/>) and Ivano Biosciences (<https://ivanobioscience.com/>).

Specifically, these projects focus on improving the manufacturing processes of biotherapeutics and vaccines by

- Genetic engineering of bacteria and animal cells;
- Engineering bacterial and animal cell cultures;
- Developing new processes for purification and formulation of biomolecules.

Funding of \$35,000/year (for 3 years) is offered to students enrolled in a PhD program in chemical engineering at Laval University, provided they commit to completing the entire STAIR biomanufacturing training program.

Candidates must have experience in bioprocessing, molecular biology, virology and cell culture. Other experience will be considered. They must also have good organizational and communication skills in French or English, as well as a good work ethic. Applicants must have a Master's degree in science or engineering, such as biochemistry, microbiology, or chemical engineering.

Interested candidates should contact Professor Bruno Gaillet by email and send him a cover letter, curriculum vitae and transcript.

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