

Contacts:

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Course lecturers:

Principal investigators at the Division of Industrial Biotechnology (Lisbeth Olsson, Carl Johan Franzén, Johan Larsbrink, Yvonne Nygård, Cecilia Geijer and several national + international guest lecturers).



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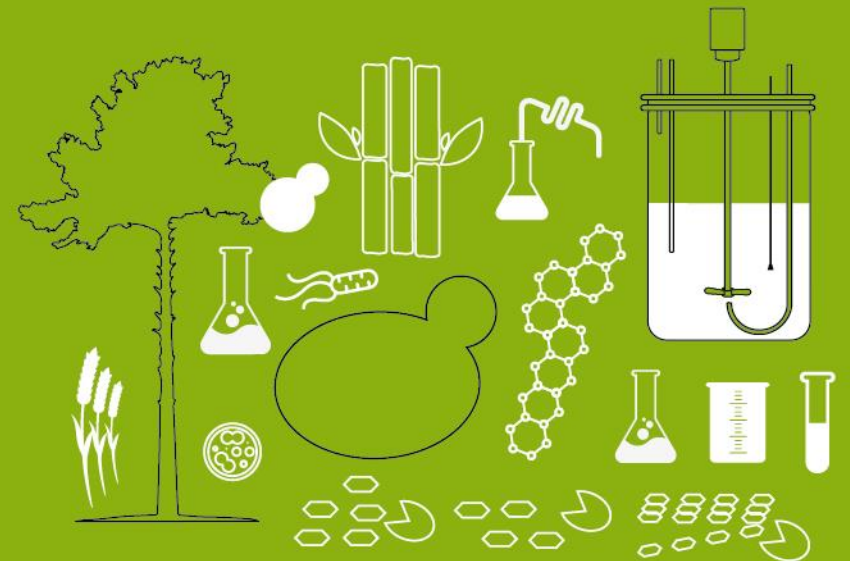
POST-GRADUATE COURSE

Fully ONLINE in 2021

Chalmers University of Technology, Gothenburg, Sweden

October 25th – October 29th, 2021

INDUSTRIAL BIOTECHNOLOGY FOR LIGNOCELLULOSE BASED PROCESSES



DEPARTMENT OF BIOLOGY AND BIOLOGICAL ENGINEERING

Division of Industrial Biotechnology

Chalmers University of Technology

SE-412 96 Gothenburg, Sweden

<https://www.chalmers.se/en/departments/bio/research/industrial-biotechnology>



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The aim is to introduce the students to production of biofuels and other chemicals using plant cell wall materials as the raw material with emphasis on the biotechnology aspect of the production process.

Lectures and exercises will be mixed. The course also includes a presentation of the group exercise completed during the course.

Who should attend?

The course is suitable to PhD students or researchers with a background in biotechnology, chemical engineering or biochemistry. The course can be taken as a 3 ETCS course, by following lectures + passing the end exam, or as a 5 ETCS course, by additionally completing a group assignment.

Course fee

The course fee is 700 SEK (\approx 70 €) for academic participants and 1000 SEK (\approx 100 €) for participants from the industry. The course fee includes all course material, participation through zoom and feedback of group assignment (presentation + written report).

Registration and information

The registration form is available at https://docs.google.com/forms/d/e/1FAIpQLSc4wGZEghP-xpn-4JIE0VT_1F0bcaNY7cuBXZZLXLL_sz8FCQ/viewform.

Registration by the 30th of September 2021. Scan the QR for video about the course's previous edition.



Course Program

Daily schedule

9 – 12	Lectures
13 – 15	Exercises in breakout rooms
15 – 17	Seminars presenting applications, by invited speakers

Monday

Biomass composition and characterization

Tuesday

Enzymes and their action

Wednesday

Microorganisms as cell factories

Thursday

Fermentation processes

Friday

Analytics

Written exam

Presentation of group work

The updated course program will be available at <http://www.chalmers.se/en/departments/bio/research/doctoral-studies/Pages/Industrial-Biotechnology-Course.aspx>

