



SUMMER SCHOOL

DURATION
5 Days

DATES
September 3rd-8th,
2018

CREDITS
3 ECTS

TUITION
300 € for academic
participants, 600 € for
industrial participants.
Rates include
participation in lectures,
study materials, coffee
break and field trip.
Rates do not include
traveling and
accommodation
expenses

LOCATION
Milan

University of Milano-Bicocca - Chalmers University of Technology

TOWARDS A BIO-BASED ECONOMY: science, innovation, economics, education

COURSE DESCRIPTION

Bio-based economy (Bioeconomy) aims to reduce the dependence on fossil fuels and finite materials without overexploiting natural resources. According to the definition of the European Commission "Bioeconomy encompasses those parts of economy that use renewable biological resources from land and sea to produce food, biomaterials, bioenergy and bioproducts". Behind bioeconomy there is much science related to industrial biotechnology as well as a deep change in economics, politics, and societal issues.

A new cross-sector expertise is therefore required. This summer school aims to provide a broad overview of the above-mentioned issues and will be held by national and international speakers, both from academia and from industry. At least one visit to a company involved in the production of bio-based compounds will be included in the school schedule. Because of its inter-disciplinarity, the program welcomes participants with different backgrounds. Participants should be aware that a basic knowledge of the scientific basis of biotechnology is required. Potential participants can ask organizers for advice.

Networking and discussion among students and lecturers will be encouraged and fostered throughout the duration of the school, with social events and a poster session.

CONTENTS

What's new: Introduction to the scope, challenges and trends of bioeconomy. Local vs global: Choice and processing of renewable raw materials; environmental sustainability of biomass sourcing and processing. How to do it: Key technologies for the production of bio-based products. Biorefineries: concepts and application. National and international strategies for bioeconomy: funding, organization, network. Innovation in place: visit to a company and case studies of success (or failure) stories.



Cost-effective models and economic sustainability of bio-based business. Societal requirements for bio-based products and societal awareness of bioeconomy; social sustainability of the bio-based model. Changes in training programs: Models and experiences.

PROGRAM COORDINATOR

Prof.sa MARINA LOTTI

APPLICATION DEADLINE

May 31st, 2018

REQUIRED DOCUMENTS TO BE UPLOADED IN THE APPLICATION FORM

CV and Passport/ID card, Motivation Letter.

TARGET AUDIENCE

Priority will be given to participants holding a masters degree, but application by masters students is encouraged and will be evaluated on the basis of the applicant's motivation and background

INFO

marina.lotti@unimib.it



Admission criteria

Each Summer School Program has different Admission Criteria, although General Criteria for all Summer Programs are as follows:

- *Applicants should be 18 years old or over*
- *Applicants should have completed at least one year of college or be enrolled in the first-year*

English language proficiency

English proficiency is required for all summer school programs offered by University of Milano-Bicocca.

Though we don't ask for a formal English certification, what we expect is:

- *Your oral comprehension and expression must be sufficient for effective class participation.*
- *Your reading comprehension and writing skills must be sufficient to respond clearly and accurately for course assignments*
- *Your comprehension and communication skills must be sufficient for individual/group interaction*

Accommodation at University of Milano-Bicocca

In order for you to fully experience Bicocca campus life, we have carefully selected residences close to the main campus building.

The University of Milano - Bicocca makes available at their residences (Building U12 , via Vizzola 5 in Milan and Building U22, via Mantova in Sesto San Giovanni) rooms suitable for guest service. To book accommodation and learn about the costs and terms of your stay you can write to: booking.bicocca.fms.it@sodexo.com