Eco-Industrial Development
IECO Summer School 2022
Universidad Austral de Chile, Valdivia, Chile
27 March – 2 April 2022

The virtual Institute of Eco-Industrial Development (IECO) invites you to its first Summer School, hosted by the Universidad Austral de Chile in Valdivia, Chile.

IECO is a multilateral institute for the study, research and innovation in the fields of industrial ecology and circular economy in Germany and Chile. Its interdisciplinary topics range from bioeconomy and circular economy to geothermal energy and sustainable land use. Please find more information about IECO and Eco-Industrial Development on the IECO website.

The Summer School is directed to Master and PhD students interested in implementing sustainable ideas in the development of industry, urban landscapes and rural areas. Advanced bachelor students may also apply. Applications from students enrolled at one of the IECO partner universities (Karlsruhe Institute of Technology, Universidad Austral de Chile, Universidad de Concepción, and Universidad de Chile) will be handled with priority.

The IECO Summer School is funded by the DAAD.

About the Summer School

The Summer School addresses different elements of the entire research cycle, from basic research to innovation management and technology transfer to industry. Through lectures and workshops, theory and practice are combined and supplemented by field trips and excursions to industrial locations and start-ups in EID, so that students learn and experience the basic theory and application perspectives for each of the topics in one day.

Several EID topics will be addressed during the multidisciplinary event, such as sustainable use in biomass, sustainable land use, water-energy nexus use, and urban industrial development, taught by scientific experts from Chile and Germany. In addition, representatives from industry, civil society and politics will be invited to provide a broader perspective on the topic.

The program of the Summer School will be complemented by cultural and social events, contributing to German-Chilean friendship.

The entire program will be held in English.
**Program**

27/03/2022  **Day 1**  
**Afternoon session**  Welcome, Introduction to Summer School Program and IECO: Topics & Action Fields  
**Evening session**  Welcome Dinner, Presentation of KIT

28/03/2022  **Day 2**  
**Morning session**  Innovation Lecture: Introduction to Ideation and Innovation & Innovation Workshop “Technology Push Session”  
**Afternoon session**  Excursion: Visit and presentation of a tech start-up in the EID sector  
**Evening session**  German Night: Dinner with intercultural training

29/03/2022  **Day 3**  
**Morning session**  Presentation on Topic I – Sustainable Assessment in the Water-Energy-Nexus & Workshop  
**Afternoon session**  Excursion to constructed wetlands and visit of biofermentation plants  
**Evening session**  Startup Bites: Pitching event for the best Start-Up idea

30/03/2022  **Day 4**  
**Morning session**  Presentation on Topic II – The future of bioeconomy: a European and Latin American perspective & Workshop  
**Afternoon session**  Excursion: Planta Valdivia del Consorcio Arauco, chemical pulp plant  
**Evening session**  Presentation of the German university landscape and DAAD programs

31/03/2022  **Day 5**  
**Full day session**  Presentation on Topic III – Geothermal Energy Field trip day to geothermal projects: Heat generation for greenhouses – pilot projects at Cozcoz and Liquiñe  
**Evening session**  KIT/UACh Night: Presentation of International Double Degree Programs and PhD opportunities

01/04/2022  **Day 6**  
**Morning session**  Presentation on Topic IV: Linking the urban and the industrial metabolism & Workshop  
**Afternoon session**  Excursion: Visit of the projects “Pavement Laboratory: Use of industrial residues to build new asphalt”  
**Evening session**  Farewell event

02/04/2022  **Day 7**  
**Full day session**  Topic V: Land use and industrial sustainability Excursion to the Valdivian Coastal Reserve, compared to industrial forest plantations  
6 pm (approx.)  End of Summer School

The lecturers are from the four IECO universities: KIT, UACH, UdeC, UCHILE.  
The program is subject to change. Please consult the Summer School website regularly for updates.

**Requirements**

- Enrollment as Master or PhD student at a Chilean University or the Karlsruhe Institute of Technology. Applications from Chilean students from Universidad Austral de Chile, Universidad de Concepción, and Universidad de Chile will be handled with priority. Advanced bachelor students may also apply.  
- Good command of English (Summer School will be held in English)  
- Commitment to participate in the entire program (all 7 days).  
- Interest in Chilean-German friendship and culture

Students are expected to have a notion of EID Topics or Circular Economy and will be asked to indicate how their studies or experience relate to EID in their application.  

There is no registration fee for the participants. However, students are required to cover their travel and accommodation fees (contact your university’s student mobility services for potential financial support).

**How to apply**

Places in the Summer School are limited to 20 participants. Therefore, there will be a selection process based on the documents you have submitted.

Please send the following documents in English to ieco@kit.edu:

- Curriculum vitae (max. 2 pages) including the following information: date of birth, university you are currently enrolled in, field of study, study level, aspired degree.  
- Summary of your research idea or start-up idea (max. 1 page) indicating your motivation and how your studies relate to EID topics. If you have no research/start-up idea, please hand in a summary outlining your motivation to participate in the Summer School.  
- Application deadline extended to 4 March 2022

Apply now for your spot in the Summer School!