

Think out of the box

eseia International Summer School 2018

Biorefineries' Processes and Sustainability

9-20 July 2018

National Laboratory of Energy and Geology (LNEG)

Lumiar Campus, Lisbon, Portugal



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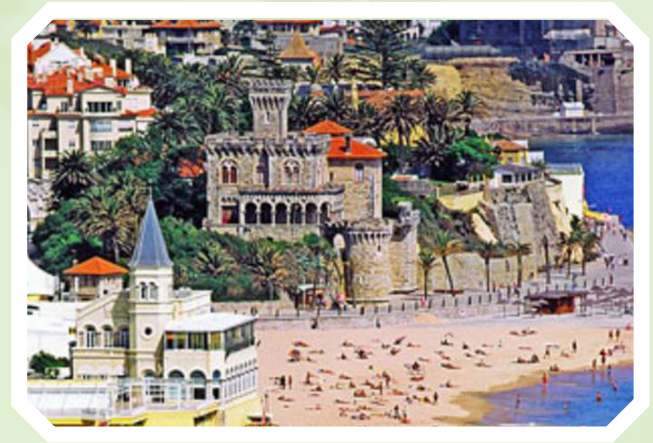
Course Description

The **eseia International Summer School (ISS) 2018** aims at covering fundamental aspects in the **quest for innovation in the biorefinery sector**, proposing interesting solutions for the conversion of underexplored biomass into biofuels and chemicals. This year Summer School will help you to **THINK OUT OF THE BOX** when approaching topics ranging from biomass and waste to energy and industrial products.

Top scientists and practitioners from businesses and academia will give you insights on biorefineries' processes and sustainability from multiple angles: socioeconomic, design and technological.

Why You Should Participate

1. **Experimental approach** to biorefineries, mixing lectures, case studies, group work and discussions.
2. **Small Groups** where participants can present, elaborate and discuss their project with lecturers during the week.
3. **Personalise your eseia ISS 2018 experience with 5 elective courses.**
4. **Technical Visits to 4 companies and solid waste processing plant.**
5. **Develop your professional network** with international experts in Biorefinery.



City of Lisbon, Portugal



National Laboratory of Energy and Geology (LNEG)



AMARSUL, Municipal Solid Waste Processing Plant

Indicative Timetable

1st Week

	Monday	Tuesday	Wednesday	Thursday	Friday
9.00	Opening Ceremony	Biomass Value Chain I	Cell Factories as Biorefinery Platforms I	Algal Biorefineries I	Technical Visits
10.00	Introduction to the course	Chemical Characterisation of Biomass	Cell Factories as Biorefinery Platforms II	Algal Biorefineries II	
11.00		Biochemical Platform I: Biomass Pre-Treatment	Cell Factories as Biorefinery Platforms III	Algal Biorefineries III	
12.30	Lunch				
14.30	Introduction to Advanced Biorefineries	Biochemical Platform I: Hemicellulose Upgrade	Novel Biogas Technologies I	Renewable Energies Integration in the Biorefinery I	Technical Visits
15.30		Thermochemical Platform I	Novel Biogas Technologies II	Renewable Energies Integration in the Biorefinery II	
16.30		Thermochemical Platform II	Industrial Talk I	Industrial Talk II	
18.00	Opportunities for Young Researchers	Good Examples on Sustainable Innovation	Social Sustainability	Professional Use of Social Media	
	Dinner				

2nd Week

9.00	Elective "Hands-On" / Experimental Course			Student Presentations
12.30	Lunch		Lunch & Technical Visit	Lunch
13.30	Elective "Hands-On" / Experimental Course			Student Presentations
17.00				Closing Session
18.00	Writing Successful Grant Proposals		Scientific Managing of a Research Center	Course Dinner
20.00	Dinner	Dinner	Dinner	

PRACTICAL INFORMATIONS

ENTRY REQUIREMENTS

The eseia ISS 2018 is aimed at international master and Ph.D. students, young post-doc researchers, practitioners, and professionals from the industry and public sector.

The official language of the course is English.

APPLICATION PROCEDURE

Applicants should prepare a short motivation letter, CV and abstract of their recent work related to the ISS 2018 topic, if applicable.

APPLICATION DEADLINE: 30 June 2018

REGISTRATION: www.eseia.eu

FEE: 620 euro covering the lectures, board, and lodging at the [Residência Universitária Feminina da Univ. Católica](#) or [Residência Universitária Maria Imaculada](#) for 12 nights. Costs and organisation of arrival and departure is in the responsibility of the participant.

ACADEMIC RECOGNITION

Students will earn 3 ECTS for their active participation to the eseia ISS 2018, equivalent to 75 hours sessions.

LOCATION

National Laboratory of Energy and Geology, [Lumiar campus](#), Lisbon, Portugal.



eseia Headquarters

Brigitte Hasewend
eseia Director
c/o TU Graz Mandellstraße 11/II
8010 Graz
Austria

Contacts:
office@eseia.eu
+43 316 873 5281 (Tel.)
+43 316 873 5282 (Fax)

eseia Brussels Hub

Rue D'Arton 22
B-1050 Brussels
Belgium

In collaboration with :



National Laboratory of Energy and Geology

Estr. Portela 999
2610 Amadora
Portugal

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