

EIGSI

Graduate School of Engineering
SUMMER SCHOOL

24 June - 4 July 2024

Ocean & Energy

La Rochelle - FRANCE



Challenge yourself in a new academic environment while enjoying one of the most popular summer destinations in France

Presentation



EIGSI Summer School is a great opportunity to learn more about the ocean and natural resources.

You will get the chance to combine high-quality, hands-on courses with outdoor activities while also experiencing the closeness of the ocean.

Summer School Programme Coordinator

Rose Campbell, summer school coordinator, is a researcher in the field of marine sciences. Her research interests include numerical modeling, optimization, oceanography, and software development. She holds a PhD and Masters in Oceanography from Aix-Marseille University (France), and a BSc of Science/Mathematics from the University of Ottawa (Canada). She currently teaches at EIGSI Engineering School in La Rochelle, France.

A team of international lecturers will join us in La Rochelle for the Summer School.

Who can apply ?

Students with at least two years post-secondary education in science or engineering.

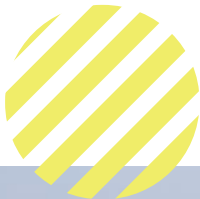
1 Registration

To submit your application for the EIGSI Summer School, write to: mobility@eigsi.fr

October 2023 – 29th March 2024

2 Acceptance by EIGSI

April 15th 2024



3 Tuition Fees

Partner university students: 700€

Non-partner university students: 2 000€

Included in the fees : classes, housing (EIGSI's residence, conveniently located 100m from the school), welcome dinner, social activities, visits.

Not included : travel to and from La Rochelle, meals.

4 Summer school

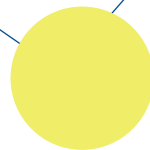
24 June – 4th July



Course details

<u>MODULE 1</u>	Ocean, Atmosphere & Climate	This course will give students a foundation to understand the sources of marine energies. The impacts of climate change on these resources will be discussed. Students will observe tidal dynamics at the nearby beach.
<u>MODULE 2</u>	Natural Resources & the Blue Economy	In this course, students will review the interaction between humankind and the ocean, with a focus on the extraction of resources. Discussion of how climate-resilient solutions can be used to reduce human impacts. An overview of maritime transportation systems will be contextualized by a site visit to the commercial harbour of La Rochelle.
<u>MODULE 3</u>	Mapping the Potential for Marine Renewable Energy	Students will collect information about currents and/or winds over a given geographic area over a period of time from European open data bases. This lab-based course uses GIS software (QGIS).
<u>MODULE 4</u>	Design Challenge	Students will divide into small groups to face this design challenge. Learners will be given a short brief and a set of materials. The final result will be built and put to test at the nearby beach during a final competition.

A variety of social and cultural activities will complement the academic programme.



EIGSI is an Engineering School, created in 1901 teaching students advanced mathematics, sciences and engineering as well as humanities, communication and foreign languages. EIGSI's close ties to industry and innovative research provide a cutting-edge engineering education.

EIGSI's exceptional setting offers students access to cultural and recreational activities in the nearby historical La Rochelle city centre, nearly 100 km of cycling paths and easy access to local beaches. During the summer, expect to enjoy the best of coastal Atlantic living: music and film festivals, sailing events, sunshine, and French cuisine.



EIGSI La Rochelle

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