



<https://sentinel.esa.int/web/sentinel/missions/sentinel-2>

Multi-Spectral Imaging and System Analysis: *tools for smart water management*

Sentinel-2 MSI for water quality assessment

Erasmus+ BIP | Blended Intensive Programme

General information

- The programme is a joined project by IPBeja, Portugal and Aeres UAS Almere, The Netherlands. IPBeja will host the project. Workshops and seminars will be given by speakers of several Universities and organizations. **The working language is English.**
- **Learning objectives:** Students will learn to use of *Multi-Spectral Images (MSI)* from *Sentinel-2 satellites (Copernicus Program, EU)* to produce maps of the distribution of relevant water quality parameters on a cloud computing platform, the *Sentinel-Hub*. Using a system based approach, they will be able to define an early warning system for harmful algae blooms, or to identify temporal patterns in the values of the quality parameters. By combining this with other data on ecology or water quality they have to come up with a plan/measure to improve the water quality.
- Accommodation, meals and travels expenses for study visits in Portugal, will be provided (if the programme reaches **15 participants**). The BIP also provides a daily allowance (please, contact the International Office of your home University to get more information about the mobility grant to participate in a BIP as “outgoing student”).
- The programme requires **full-time** dedication. After successfully completing the programme, students will be awarded **8 ECTS**.



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Important Dates

Arrival day 3 rd February	Welcome session (18h00) Dinner (19h30)
4 th February	Beja City walking tour (14h00) <i>Meeting point IPBeja main building</i>
Starting date 7 February	Visit to Alqueva Lake (time to be announced) <i>Meeting point IPBeja main building</i>
Week 1 to 3	Face-to-face workshops and seminars @ IPBeja <i>...and cultural activities!</i>
Week 4 & 5	Online sessions & team work Final presentation (11 th March)

How to Apply

Student's profile: Eco-Engineering, Ecology, Water management, Water technology and so on) and preferably (almost) finished their Bachelor or attending a masters course.

Interested participants send mail to until the 30th November 2021
AERES Uni. Prof. Annet Pouw: a.pouw@aeres.nl

Contact

Questions related to Erasmus+
International Relations Office IPBeja: gri@ipbeja.pt