Centrale Méditerranée Master of Science & Technology in Complex Systems Engineering

The MScT CSE is designed for undergraduate students who wish to strengthen their scientific knowledge and acquire management skills during their master's degree. The Master's program is built, like Centrale Méditerranée's other courses, around major societal issues. It offers currently two distinct tracks:

- Environmental engineering
- Biomedical Engineering

The master’s course is fully taught in English. It is accredited by the French higher education ministry.

The full 2-year programme will give you 140 ECTS.

Admission

Deadline **06/06/2025** The recruitment process is organized in three stages:

- Please contact us by email by sending your CV + cover letter. We will send you all the relevant information (programmes, schedules, costs).
- Your application will be examined by the teaching team, who will contact you as soon as possible.
- If your application is eligible, an interview will be organized.

Contact

<A HREF="mailto:msct-cse@centrale-marseille.fr">MScT CSE</A>

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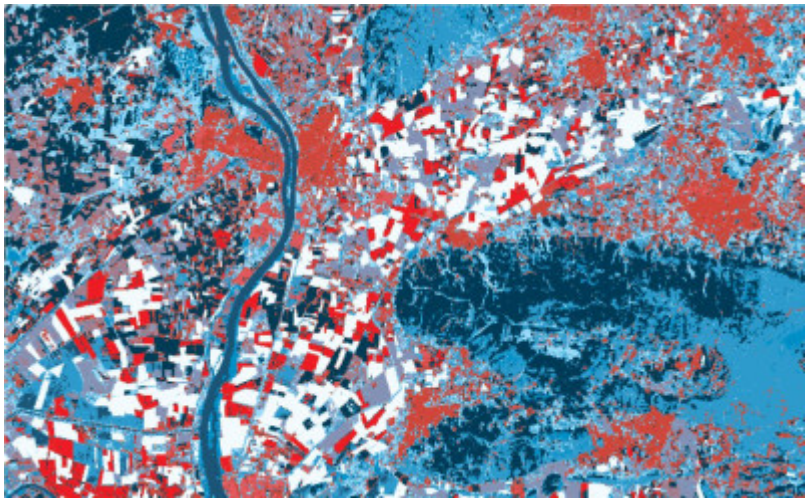
Environmental engineering



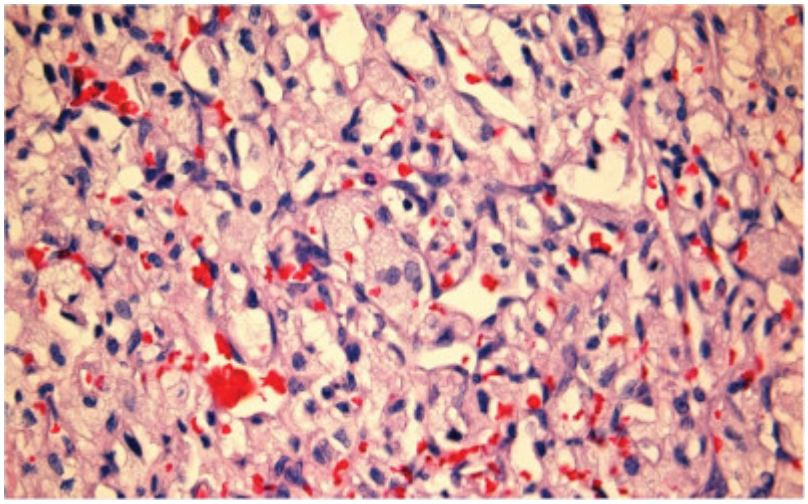
The aim of environmental engineering is to provide sustainable solutions to environmental problems by applying scientific and engineering principles. The field has evolved over the years, and its focus has shifted from end-of-pipe solutions, such as pollution control and waste treatment, to more holistic approaches that address the root causes of environmental problems. The ultimate goal of environmental engineering is to create a sustainable future, where the natural environment is protected, and human activities are in harmony with nature. This includes promoting the use of renewable resources, reducing waste generation, improving energy efficiency, and minimizing the use of harmful chemicals. Additionally, environmental engineering also aims to promote social equity and justice, by ensuring that environmental risks and benefits are shared equitably among all members of society. Overall, the aim of environmental engineering is to achieve a balance between economic growth, social development, and environmental protection for the benefit of present and future generations.

The Master's programme in Environmental Engineering (CSE 2E) aims to train students to address environmental engineering problems related to land-use planning in a context where climate change imposes, and will impose even more strongly in the coming decades, the need to think and develop global sustainable solutions. For instance, some of the topics addressed in the curriculum are:

- Urban warming
- Energy efficiency
- Water management
- Aridity, soil erosion and desertification
- Air pollution
- Green processes and circular economy
- Risk management

The CSE 2E programme is part of the Curricula of the School of Engineering. **Courses details can be found here** .

Biomedical engineering



Systems Modeling & quantitative imaging

This 2 years programme (BME) aims to provide to the students the fundamental knowledge and the know-how to address during their professional career the complexity of the future challenges of biomedical engineering:

- Material science for BME
- Bioinformatics
- Multiphysics and multiscale modeling
- Imaging devices & signal and image processing
- Biostatistics
- Machine learning
- Biotechnologies & chemical therapy

The CSE BME programme is part of the Curricula of the School of Engineering. **Courses details can be found here** .