

Earth Sciences and Sustainable Management of Environmental Resources

Constructor University Bremen
Bachelor of Science



Program

Develop a holistic understanding of the system Earth

The BSc program Earth Sciences and Sustainable Management of Environmental Resources (ESSMER) at Constructor University addresses critical 21st-century challenges, such as climate change, biodiversity loss, and resource scarcity. This interdisciplinary major focuses on Earth's surface phenomena, providing students with a comprehensive understanding of Earth's systems, human impacts, and sustainable resource management. ESSMER covers:

1. **Holistic Earth Understanding:** Students gain insights into Earth's complex systems, including interactions with land, atmosphere, oceans, and the biosphere.
2. **Anthropogenic Interaction:** Emphasis on human activities and their environmental impacts, fostering knowledge for sustainable practices.
3. **Resource Management:** ESSMER highlights sustainable approaches to manage water, soils, biological and energy resources, and minerals.
4. **Interdisciplinary Approach:** Integrating science disciplines, methodological tools, and data management for a comprehensive perspective.
5. **Sustainability Principles:** ESSMER instills principles of sustainability, balancing human needs with environmental conservation.

The program equips students to address environmental challenges and promote sustainable resource management. The Career Services Center and Alumni Office further support graduates in shaping impactful careers in environmental sciences and resource management.

Key facts

Place: Constructor University, Bremen, Germany

Tuition: 10.000€ per semester + 4.250€ on-campus room and board (shared room, shared bathroom, full meal plan, per semester)

Fall intake 2025: Apply by June 1 (global) and July 15 (for applicants who do not need a visa). Start last week of August (orientation week), first week of September (classes)

Scholarships: All students are considered for an academic achievement scholarship based on their school grade point average (GPA). EU students are eligible for a minimum guaranteed scholarship of 4.000€.

Duration: 3 years full-time

Financing options: Each admitted candidate will receive an individual financial package.

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Contact

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Or use the [contact form >](#)

Career

Career Perspectives

The Earth Sciences and Sustainable Management of Environmental Resources program at Constructor University offers diverse career paths, reflecting the breadth of Earth and Environmental Sciences. Graduates enjoy excellent prospects due to the increasing demand for professionals with a science-based background and practical skills. The program's key features include:

1. **Multifaceted Skill Set:** Graduates possess practical field and lab skills, numerical and

analytical expertise, and a solid foundation in geochemistry, geology, and/or digital geosciences.

2. **Interdisciplinary Competence:** Understanding the interdisciplinary nature of Earth Sciences enhances graduates' value in academia and industry.

Career options include roles in:

- **Resource Exploration and Management:** In areas like fresh water, fossil fuels, and minerals, both on land and in oceans.
- **Research:** In universities, state-funded institutions, NGOs, or private research facilities, especially in green technologies.
- **Environmental Consulting and Management:** Contributing to sustainable practices and solutions.
- **Start-ups and SMEs:** Engaging in the growing environmental and renewable energy sector.
- **Teaching:** Opportunities in high-schools, colleges, and universities.
- **Science Journalism and Publishing:** Communicating scientific knowledge to the public.
- **Geo- and Eco-Tourism:** Utilizing expertise in the tourism industry.

The program also prepares students for advanced studies at graduate schools, enhancing their eligibility for positions in both academia and industry. The Career Services Center and Alumni Office provide further support for graduates in shaping successful careers.

Application

Undergraduate application information

Here you can find out about deadlines, the application process and requirements to apply for your Bachelor's program at Constructor University.

Financing

Investing in education is a significant commitment to your future, and at Constructor University, we are dedicated to transforming it into an affordable reality for students worldwide. To achieve this, we provide personalized financing options tailored to help cover tuition fees. These packages may include various forms of financial assistance, such as scholarships, grants, and tuition deferrals. The deferred tuition fees are only repaid once you have successfully entered the job market, allowing you to concentrate fully on your studies without immediate financial burden. We firmly believe that a Constructor University education serves as an ideal foundation for your future career, and we are delighted to invest in your success.

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