



Environmental Science


for Sustainable Energy and Technology (4 year programme)

Society faces the challenge of sustainable development. Foremost is the development of sustainable energy which, if available will solve many of the world's current problems (global warming, clean water, food shortage). Our society needs professionals who have the skills to engage in these developments.

The Netherlands is one of the most densely populated countries in the world and was confronted at an early stage with environmental problems. This resulted in a head start in environmental skills. Nowadays, Europe is playing an even more important role in the global environmental community.

Avans offers students project assignments which are developed together with the professional field. These projects are the centre of our educational programme.

The program focuses on global environmental problems and solutions. You will explore these in a group of students of different nationalities, acquiring important skills for future intercultural communication.

Course domain:	Science and  Technology
Duration:	4 years
Start of course:	End of August
Location:	Breda, the Netherlands
Educational model(s) used:	Courses, projects, practicals, work placements, intensive study counselling (in English)
Degree after completion:	Bachelor's degree of Applied Sciences (BSc)
Entry requirements:	<ul style="list-style-type: none"> • IELTS score of 6.0 or higher • School certificate at least equivalent to Dutch HAVO, VWO or MBO • Positive advice based on personal interview • Preparatory course of 1 or 2 semesters available if you do not meet the requirements
Job opportunities:	<p>Good</p> <ul style="list-style-type: none"> • Government agencies: development and implementation of environmental policies • Industry: EHS positions • Consultancies: consultation ranging from technical solutions to environmental licensing to policy making
Further education opportunities:	e.g. Wageningen University (wide range of environmental Master's programmes), Eindhoven University of Technology (Sustainable Energy Technologies)
Tuition fee:	www.studyatavans.com
Deadline for application:	June 1
For information:	internationaloffice@avans.nl www.studyatavans.com



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The programme consists of four years, each divided into four quarters. The programme has three different educational activities: projects, courses and activities in professional skills & coaching.

Project focus

There are four environmental target areas in our programme: sustainable energy, waste management & conversion, environmental pollution & sustainable technology, and environment & health.

Courses, practicals, coaching

Courses and practicals are in the domains of basic science skills (chemistry, mathematics, biology), health (toxicology, risk assessment), the environmental compartments (soil, air and water pollution), clean-up technology, environmental law and policy and ethics. Energy-related subjects receive special attention, as these are the main focus of our curriculum (sustainable energy sources, hydrogen technology, thermodynamics, energy conversion, global warming). Alongside the courses and practicals, there is constant individual coaching to develop your personal and professional skills.

Minors

In the third and fourth years there are two minors. The Towards Sustainable Production minor focuses on finding technological solutions for sustainable production, but the assignments will also include consultancy skills: all solutions have to be presented within a professional context. In the Sustainable Energy: Feasibility and Optimisation Studies minor, you will apply all the skills and knowledge on sustainable energy that you have gained in the first three years to the economically feasible implementation of sustainable energy.

Work placements

In the third and fourth year there is a work placement of one semester. During the first work placement you will spend half a year in a governmental organisation, a company, a consultancy or a non-profit organisation. This placement is focused on getting to know the professional field and gaining hands-on experience. During the second work placement you will work on an individual assignment to show your ability to function as an environmental scientist.



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