

Energy and Environmental Systems Engineering

Bachelor

A photograph showing a group of approximately ten students, both men and women, working on a solar panel system in an outdoor, rural setting. They are standing around a large blue solar panel mounted on the ground. Some students are holding tools or cables, suggesting they are installing or maintaining the system. The background shows some trees and a clear sky.

Apply at
hslu.ch/eese

Creating a Sustainable Future Together

Energy and the environment present global challenges. Our future depends on pioneering efficient and innovative technologies to confront the energy crisis, climate change and resource scarcity.

The Bachelor of Science in Energy and Environmental Systems Engineering equips you to become the driving force behind important solutions.

This program is designed to arm aspiring engineers with the indispensable skills and a proactive problem-solving mindset to implement real, positive change.

Through our interdisciplinary curriculum, students acquire the capacity to comprehensively design and analyze systems through technological, economic, ecological and societal lenses. Our educators are from various departments and combine their expertise with insights from the university's pioneering research efforts.

Let's talk about your future!



Do you have any questions?

Prof. Dr. Anastasia Stamatou

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Further information about the Bachelor of Science in Energy and Environmental Systems Engineering

Career Opportunities

Swiss Engineering in English

Our Bachelor stands out as the sole Swiss Engineering BSc program offered entirely in English. On one hand, this allows non-German speaking and German-speaking students the opportunity to master professional English – enhancing their international career prospects. In addition, HSLU offers free German and English language classes (among other languages) to all our students.

Do you have a passion for sustainability and career growth? You can have both!

Our students undertake an industry project and Bachelor thesis in collaboration with Swiss and international corporations. This helps them gain easier and more direct access to the Swiss job market after their graduation.

Our alumni embark on fulfilling careers and leadership roles, with energy and environmental organizations in Switzerland and abroad.

These corporate connections increase the range of professional opportunities for the holders of our degree, including energy service providers, technology providers and planning/consulting, among others.

«In my job, the technical knowledge gained during my studies and the ability to handle complex data sets are crucial for analyzing and comprehending energy systems.»

Rosella Huta

Specialist in Monitoring, Helion



Learn about
our alumni
and their careers

Your Unique Competence Profile

Choose from a vast array of elective modules to mold your studies to suit your envisioned career. You have the freedom to customize 43 % of your curriculum to align with your individual passions and accommodate your personal schedule. Combine theory with experiments and case studies from real-life industrial challenges.



One Bachelor, diverse Opportunities

- Energy Systems:

The students interested in Energy can delve into energy storage, power grids, renewable energies, and energy trading, driven by the influence of local and global policies.

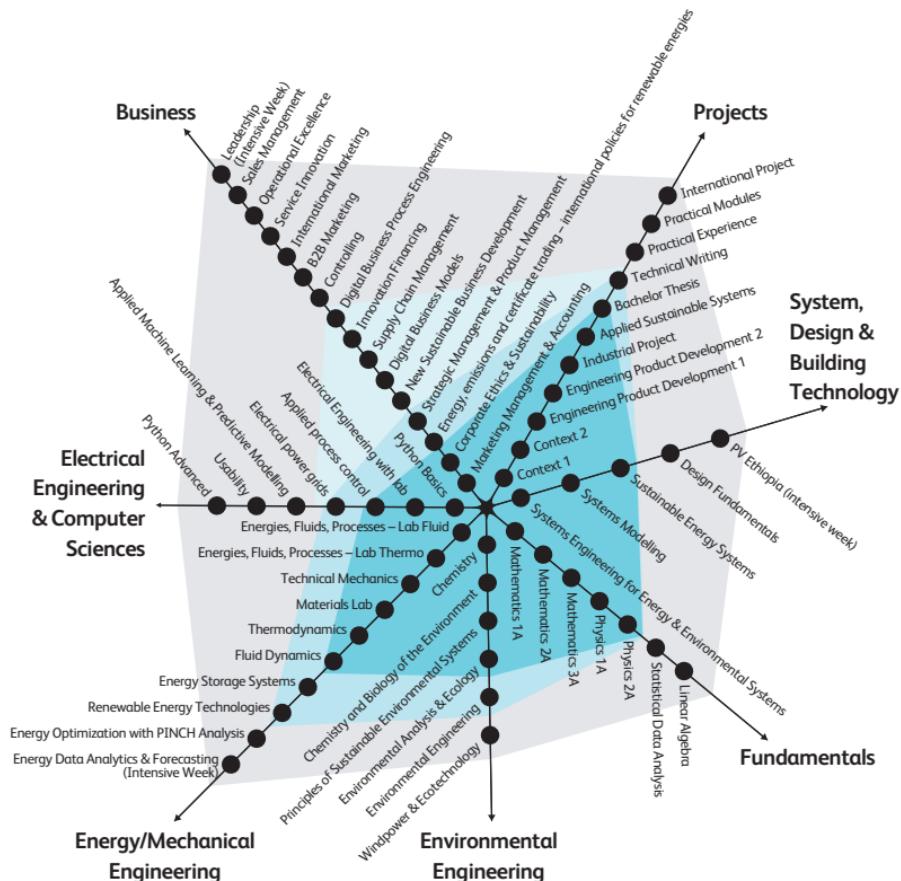
- Environmental Systems:

The students who want to focus on the Environment can choose topics such as waste management and recycling, water treatment, environmental technologies & pollution control.

Students also have the option to pursue a Business Certificate.

Combining modules from both tracks can further equip our students to tackle complex sustainability issues.

Discover our Interdisciplinary Curriculum!



Core Modules, mandatory

Core Modules, elective

Core Modules, elective – for Business Certificate

Related modules

International

Our program fosters an international, culturally diverse atmosphere, featuring a faculty and student body representing 40 nations. We have partnered with international universities to offer our students the option of taking semesters abroad as well as other exchange initiatives.



Explore the
study program
interactively

Time Models

Flexible time models

- Full-time (3 years/6 semesters) or part-time
- Switch time models at the end of any given semester (September or February)

Exclusive Modules for our Bachelor

Corporate ethics and sustainability empower students to grasp the essentials of business ethics and corporate responsibility. Additionally, the environmental analysis & ecology module delves into the critical study of the environment, fostering a deep understanding of ecological principles and their implications for sustainable practices.

Work and Study: PiBS

«PiBS» offers an innovative avenue for recent German-speaking graduates who don't have relevant professional experience. This specialized initiative helps them bridge the gap between theory and practice by working part-time at one of the HSLU's industrial partners. Learn more at hslu.ch/pibs.

Admission

Admission to the Energy and Environmental Systems Engineering program requires:

- **Education:** A higher secondary education certificate qualifying for university admission or equivalent diplomas with additional exams for university of applied sciences entry. Foreign qualifications are assessed per swissuniversities.ch for:
 - International Baccalaureate
 - International European Baccalaureate
 - International Advanced Level + International GCSE
 - Foreign higher secondary education certificate
 - Swiss degrees: «Gymnasiale Maturität», «Fachmaturität» and «Berufsmaturität»
- **Fees:**
 - Registration fee (one time, upon registration): CHF 200
 - Tuition fees (per semester): CHF 800
- Additional semester fees for foreign students (who are not Swiss residents and enter Switzerland for the purpose of studying) : CHF 500
- **Work experience:** 12 months of relevant full-time work experience prior to the start of the program or after the first year of studies
- **Language skills:** Proficiency in English (CEFR C1, IELTS 7.0, TOEFL IBT 95 or equivalent). Language certificate submission is mandatory; provisional acceptance is granted to candidates without it, but the certificate is required before the first semester commences.



Dr. Macarena San Martin Ruiz
Senior Assistant to the Head

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Reserve a personal consultation today with our senior assistant

Study in Lucerne!

Lucerne welcomes thousands of students, offering not only an academic environment but also a vibrant city experience. Far more than just a student hub, Lucerne boasts a rich history and enchanting old town against a backdrop of awe-inspiring mountains. The presence of flourishing local companies nurtures professional growth, while the dynamic cultural scene and plethora of outdoor activities add a touch of excitement to daily life.

Unsurprisingly, Lucerne draws millions of visitors each year.

Choose to study at HSLU and get inspired in Lucerne!





Useful Information



International experience

Our English program fosters a diverse, international environment with faculty and students from around the world. Collaborating with global companies and exchange opportunities enhance this experience.



Application

For organizational and administrative reasons, we recommend that if you are not a Swiss resident to sign up for the program four months before studies commence. Late registrations are possible as well. Apply now on hslu.ch/jetzt



Accommodation

Looking for more than just a roof over your head to live and study in? The Lucerne School of Engineering and Architecture offers housing for students and exchange students.
housing@hslu.ch



Flexibility

Our programs are designed to fit your needs. You can choose from a range of time models, shape the key elements of your program or fill specific gaps in your previous education.



Grants and Scholarships

You may be eligible for grants or scholarships. If you are studying for your first degree, please contact your parents' Canton or country of residence. For further information, visit hslu.ch/scholarships



Self-employment

Do you want to prepare yourself for future self-employment? The Smart-up scheme provides support and advice. hslu.ch/smart-up

Campus Life



Campus

Are you more of a mountain or a city person? Our campus is conveniently located and easy to reach from both rural and urban areas.

hslu.ch/ta-standort

For This We Stand



Focus on the future

Get ready for a sustainable and digitally transformed working world with our degree programs.



Living and Learning

In our project spaces and labs, you will work with a practical and interdisciplinary focus. Particularly convenient: the technical library with its broad range of media is a short ten steps away from the cafeteria.



Practical focus

We provide you with the skills you will need in your future career. You will get hands-on experience by closely collaborating with real-life businesses throughout your program, including your thesis project.



University Sports

The HSLU offers an attractive and wide-ranging sports program:

unilu.ch/en/life-at-university/sports/



Interdisciplinarity

Teaching at our School is interdisciplinary. You will closely collaborate with students from other programs. More than half of our modules are available to students from more than one program.

Do you have any questions?
Our Bachelor & Master Secretariat
will be happy to assist you:

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Follow us!
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Further information about the
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