



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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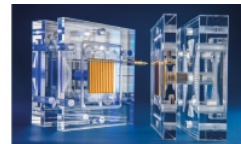
Master's degree

universität freiburg



MSc in Sustainable Systems Engineering

University of Freiburg • Freiburg im Breisgau



Overview

Degree	Master of Science (MSc)
Teaching language	<ul style="list-style-type: none">English
Languages	<p>The SSE Master's programme is an English-taught programme, and German language skills are not required.</p> <p>However, the University of Freiburg is a German university. This means there are a lot of German-taught lectures and seminars. Thus, German-speaking students have a broader choice of elective courses.</p>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	<p>15 May every year for the following winter semester</p> <p>This deadline applies to all applicants (German, EU and non-EU).</p>
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	<p>The state of Baden-Württemberg implemented study fees for international students as well as students earning a second degree starting in the 2017/18 winter semester.</p> <p>Here you will find further information about tuition fees: www.studium.uni-freiburg.de/en.</p>
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Imagine you are not just talking about sustainability, but you are actively contributing to how the materials, energy systems and technologies of the future are developed! Science and engineering are fundamental tools to achieve a sustainable development in domains like ecology, economics and society as well. The English-taught Master's programme Sustainable Systems Engineering (SSE)</p>

with its international focus is particularly addressed to graduates with a Bachelor's degree in engineering or natural sciences. It provides in-depth engineering skills in sustainable materials, energy systems, and resilience engineering. Moreover, it teaches interdisciplinary knowledge in natural resources and climate change as well as sustainable economics, technologies and societies during its two-year duration.

The engineering Master's degree in Sustainable Systems Engineering opens up a whole range of career prospects for you: classical engineering professions, working for environmental authorities and public institutions, developing materials and technologies, or a scientific-research career.

Find more information about the programme and career perspectives on our website.

Course Details

Course organisation

Sustainable Systems Engineering is an interdisciplinary Master's programme that builds on fundamental knowledge in electrical and mechanical engineering as well as natural and material sciences. From the first semester on, students start selecting a variety of Elective Modules within the three Technical Concentration Areas, thus enabling them to specialise in their favourite research field(s) from the beginning. In addition to an engineering's point of view of sustainability, interdisciplinary modules enhance the holistic understanding of sustainability.

Find more information about the content and the different modules on our website. Additionally, see our recommended study plan.

[» PDF Download](#)

A Diploma supplement will be issued

Yes

Integrated internships

Neither internships nor periods of time spent abroad are specifically part of the programme. However, each student can autonomously arrange an internship or a semester abroad during a so-called "leave of absence semester".

Find more information on our website.

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

Costs / Funding

Tuition fees per semester in EUR

1,500 EUR

Additional information on tuition fees

The state of Baden-Württemberg implemented study fees for international students as well as students earning a second degree starting in the 2017/18 winter semester.

Here you will find further information about tuition fees: www.studium.uni-freiburg.de/en.

Semester contribution

180 EUR per semester:

- Administrative fee: 70 EUR
- Contribution to the constituted student body: 7 EUR
- Contribution to the student union: 103 EUR

Costs of living

Participants must ensure that sufficient funding is available to finance their participation in a course of study. The average cost of living in Freiburg for one month is currently approx. 850 EUR to 1,000 EUR.

Some details:

- Rooms in private accommodation including extra costs: 350 EUR – 700 EUR
- Rooms in student residences including extra costs: 250 EUR – 550 EUR
- Private expenses amount to around 350 EUR per month.
- Health insurance (recommended) is available for approx. 120 EUR per month.
- Transport: A special student ticket for regional transport costs approx. 89 EUR per semester.

www.studium.uni-freiburg.de/en/counseling/welcome-guide-for-international-students/finance

Funding opportunities within the university

Yes

Description of the above-mentioned funding opportunities within the university

Find more information on our website.

Requirements / Registration

Academic admission requirements

In principle, you are eligible for the SSE Master's programme if you fulfil the following requirements:

- You must hold a Bachelor's degree in engineering or science with a total of 180 ECTS and three years of duration at least. (For applicants from Asia and the MENA regions, usually four years are required.)
- 120 ECTS of your Bachelor's degree must be engineering and natural science-related subjects (such as mathematics, physics, chemistry, computer science, electronics, etc.). This precondition is usually fulfilled by electrical and mechanical engineers, but can also be fulfilled by graduates of similar programmes such as environmental engineering, materials science and energy engineering. Our admissions committee decides on the suitability of your previous degree (i.e. whether or not it has prepared you well) for the SSE Master's programme.
- Outstanding performance is required. The "cut-off grade" of the MSc SSE is a grade average of 2.5 on a German scale.
- Advanced English language skills on a CEFR B2 level

Find more information about the documents you need and the application process in general on our website.

Language requirements

The required English proficiency level for the SSE Master's programme is CEFR B2.

Find more information on the language certificates that are approved by the University of Freiburg here:

<https://www.studium.uni-freiburg.de/en/student-services/language-certificates>

Application deadline

15 May every year for the following winter semester

This deadline applies to **all** applicants (German, EU and non-EU).

Submit application to

The application and all supporting documents must be submitted electronically through the application portal of the University of Freiburg:

<https://campus.uni-freiburg.de/qisserver/pages/cs/sys/portal/hisinoneStartPage.faces>

Services

Possibility of finding part-time employment

Qualified students usually find opportunities to work as a tutor or research assistant ("Hiwi") in one of the laboratories of the department/faculty or at the partnering Fraunhofer institutes.

Find more information about student jobs on our website.

Accommodation

As Freiburg is an attractive city, finding a suitable and affordable place to live can take a little while. The University of Freiburg offers all newly enrolled international students the possibility to apply for student housing via the International Office. In addition to these dormitories, which are run by the Studierendenwerk Freiburg (www.swfr.de/en), several independent residence halls are listed on the university website (<http://www.housing.uni-freiburg.de>). The Studierendenwerk Freiburg and the International Office also offer a list of available private rooms.

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Accompanying programme



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Deepak Rupakula
BE Mechanical Engineering

I would like to say that this course of study is really amazing and interesting. Starting in the second semester, we get to choose our own specialisations and subjects, which makes it feel like we are customising our own Master's course of study. Furthermore, there are many interesting subjects from which to choose. I really love this course of study, and I also recommended it to my friends for the coming winter semester.

University of Freiburg



Traditional and modern: the University of Freiburg in Germany

© Universität Freiburg - Sandra Meyndt

The University of Freiburg was founded in 1457 as a classical comprehensive university, making it one of the oldest institutions of higher education in Germany. Awarded for its excellence in both research and teaching, the university also boasts a long history, with numerous Nobel laureates. Brilliant scholars and creative thinking distinguish it today as a modern, top-notch university, well equipped for the challenges of the 21st century. As an organisation with around 24,500 students, 288 degree programmes, and 6,536 employees (2021), the University of Freiburg is committed to family friendliness, equal opportunities, and environmental consciousness in its day-to-day operations. The structure of the university is multifaceted, ranging from 11 academic faculties – from the humanities and the social and

natural sciences all the way to engineering – to 19 research centres. This goes to show that we are a dynamic, large-scale institution with a diverse educational offering. As studies, research, and continuing education are all an integral part of this offering, we maintain a close relationship with the city and the region as well as with the international academic community. Bilateral partnerships, research projects, joint study courses and memberships in international networks such as the League of European Research Universities (LERU) and of EUCOR – The European Campus are examples of the university's strong transnational relations. All our students, including those from abroad, can take courses at the Universities of Basel (Switzerland) and Strasbourg (France) without having to enrol. Via EUCOR, The European Campus mobility grant, they also receive allowances for travel expenses to their partner institutions.

universität freiburg

University location

Freiburg im Breisgau is a city in south-western Germany on the edge of the Black Forest. Freiburg was founded by Konrad and Duke Bertold III of Zähringen in 1120 as a free market town – hence its name, which translates to "free town". Freiburg holds a central position in Europe at the trijunction of Switzerland, France, and Germany, and is the city with the most hours of sunshine per year in Germany. It is nestled in one of the oldest cultural landscapes north of the Alps, a location which has had an unmistakable influence on the town. The university plays an essential part in the quality of life in Freiburg; both in the academic sphere and in the perception of the general public, the activities of the university are of central importance. Since its founding, teaching, learning and research have formed an indivisible whole.



With approx. 230,000 inhabitants, Freiburg has a friendly size, offering the safe surroundings of a smaller city whilst at the same time excelling in terms of culture, shopping and infrastructure. Both the inhabitants and the city government of Freiburg attach great importance to ecological values and sustainable development. This "green city" atmosphere influences many aspects of city life – from the numerous cyclists on the streets to cutting-edge solar energy research. Surrounded by the beautiful landscapes of the Black Forest and the wine-growing regions of the Rhine Valley, Freiburg is a popular destination for tourism and leisure activities.

Contact

University of Freiburg


Department of Sustainable Systems Engineering/
Institut für Nachhaltige Technische Systeme (INATECH)


Emmy-Noether-Straße 2
79110 Freiburg im Breisgau

 study@inatech.uni-freiburg.de
 Course website: <https://www.inatech.de/>

 <https://www.facebook.com/unifreiburg>

 <https://twitter.com/UniFreiburg>

 <https://www.linkedin.com/company/albert-ludwigs-universit-t-freiburg-im-breisgau>

 <https://instagram.com/unifreiburg/>

 <https://www.youtube.com/c/Universit%C3%A4tFreiburg>

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International Programmes in Germany - Database

www.daad.de/international-programmes
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Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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