



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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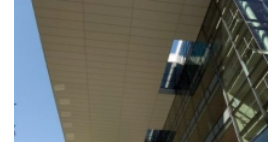
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# Master's degree



## Sustainable Management – Water and Energy

RWTH Aachen University • Aachen



## Overview

Degree	Master of Science Sustainable Management – Water and Energy
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>This programme is completely taught in English.</p> <p>International students may register for a German course as part of the study plan.</p>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	<p>15 July for the following winter semester</p> <p>Please check <a href="https://www.rwth-aachen.de/cms/root/studium/Vor-dem-Studium/Bewerbung-um-einen-Studienplatz/Master-Bewerbung/~dqml/Bewerbung-Master-Internationale/?lidx=1">https://www.rwth-aachen.de/cms/root/studium/Vor-dem-Studium/Bewerbung-um-einen-Studienplatz/Master-Bewerbung/~dqml/Bewerbung-Master-Internationale/?lidx=1</a></p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Maintaining a permanent supply of water and energy is one of the great global challenges of our time. As a result, the water-energy nexus, which reaches across various sectors, is becoming increasingly important. Knowing the relationship between water and energy supply and distribution (both pillars in sustainability), it is necessary to connect different scientific perspectives. By considering complex interdependencies – detached from individual resources – the water-energy nexus gains importance as a key element of sustainable development.</p> <p>By offering the Master's course of study in Sustainable Management, RWTH Aachen University is meeting the demand for interdisciplinary collaboration. The programme integrates disciplines from energy, civil, and environmental engineering; geography; business and economics; and the social sciences. Students gain specialised analysis, method, solution, and evaluation skills in the fields of water and energy management. Furthermore, the course of study teaches interdisciplinary skills, such as the ability to critically reflect on innovations in a global context and the ability to work and</p>

research independently.

This technical breadth will allow graduates to face complex and global challenges in their professional lives that are scientifically, technologically, and socially relevant. The programme aims at qualifying a new generation of socially responsible engineers who will contribute to shaping global, sustainable development.

## Course Details

<b>Course organisation</b>	<p>Students' interdisciplinary perspectives are carefully crafted from the first to the last semester. The programme begins with interdisciplinary units and then transitions to water and water management (at RWTH Aachen University). Next, it moves on to the field of energy and energy management (mandatory mobility window abroad at Politecnico di Milano), and it ends with a final semester dedicated to the water-energy nexus (at RWTH Aachen University). Students complete an independent research paper during this final semester as well.</p> <p><b>Study plan and module handbook available at:</b> <a href="https://www.fb3.rwth-aachen.de/cms/bauingenieurwesen/Studium/Studiengaenge/Masterstudiengaenge/Sustainable-Management-Water-und-Energ/~org/Studienverlauf/?lidx=1">https://www.fb3.rwth-aachen.de/cms/bauingenieurwesen/Studium/Studiengaenge/Masterstudiengaenge/Sustainable-Management-Water-und-Energ/~org/Studienverlauf/?lidx=1</a></p> <p><b>Mobility window (mandatory)</b> During the mobility window, students complete courses with a focus on energy technology and energy management at Politecnico di Milano.</p>
<b>A Diploma supplement will be issued</b>	Yes
<b>International elements</b>	<ul style="list-style-type: none"><li>• Integrated study abroad unit(s)</li></ul>
<b>Integrated study abroad unit(s)</b>	The mobility window during the third semester allows students to easily complete a stay abroad in order to specifically complete courses on energy technology and energy management. A fixed programme is currently offered in collaboration with Politecnico di Milano in Italy.
<b>Course-specific, integrated German language courses</b>	No
<b>Course-specific, integrated English language courses</b>	No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	None
<b>Semester contribution</b>	All RWTH students must pay a social contribution for student services amounting to approx. 317 EUR per semester. This is not a tuition fee. Please visit our website for further information on how the fee is spent: <a href="http://www.rwth-aachen.de/cms/root/Studium/Im-Studium/~egw/Rueckmeldung/?lidx=1">http://www.rwth-aachen.de/cms/root/Studium/Im-Studium/~egw/Rueckmeldung/?lidx=1</a>

**Costs of living** The cost of living is approximately 1,132 EUR per month (including the social contribution fee for

each semester).

**Funding opportunities within the university**

Yes

**Description of the above-mentioned funding opportunities within the university**

RWTH Aachen University offers a variety of scholarships. Please find more information online: <http://www.rwth-aachen.de/go/id/dyiv/lidx/1>.

## Requirements / Registration

**Academic admission requirements**

The prerequisites include a previously earned Bachelor's degree prior to entering this programme. Applicants are required to have a strong background in the natural sciences, hydraulics, and general engineering as well as degree-specific knowledge.

The applicants should have completed at least 19 ECTS credit points in the scientific fundamentals in **at least three** of the following topics: maths, statistics, chemistry, physics, ecology, informatics.

Additionally, at least 20 ECTS credit points in the engineering fundamentals, in **at least three** of following topics are required: mechanics, hydromechanics, water construction, thermal engineering.

Lastly, at least 20 ECTS credit points in the subject-related fundamentals in **at least three** of following topics are required: process engineering, power engineering, water management, energy raw materials, business administration, climatology, hydrology, environmental management, energy industry, urban water management, surveying.

If up to 20 ECTS credit points of the requirements are not fulfilled, students have to attend additional courses from the Bachelor's degree in Civil Engineering/Environmental Engineering programme. These additional courses are only offered in German.

International applicants from non-EU/EEA countries additionally need to provide the evidence of a Graduate Record Examination (GRE) General Test.

Further information is available in the respective admissions regulations.

The exam board determines whether an applicant fulfils the entrance requirements.

**Language requirements**

In addition to the subject-related prerequisites, applicants must show proof of a profound level of the English language that is at least equivalent to level B2 of the Common European Framework of Reference for Languages (CEFR).

The following language tests are accepted as proof of English language skills:

- Test of English as Foreign Language (TOEFL), Internet-based test (iBT)
  - IELTS
  - Cambridge Test – Certificate of Advanced English
  - First Certificate in English, FCE for short
  - a certificate, certifying English skills at level B2 of the Common European Frame of Reference for Languages
  - placement test of the RWTH Aachen Language Center at the B2 level, that is MK 7
- Important information: This language certificate can only be obtained by individuals who are already enrolled as students at RWTH Aachen University.

**Application deadline**

15 July for the following winter semester

Please check <https://www.rwth-aachen.de/cms/root/studium/Vor-dem-Studium/Bewerbung-um->

**Submit application to**

Please submit your application online: <http://www.rwth-aachen.de/go/id/dqml/lidx/1/>.

## Services

**Possibility of finding part-time employment**

International students may take up work in the private sector during the semester or in the semester breaks for up to three months without obtaining a work permit. Students thus may take up full-time work for 120 days or part-time positions for 240 days. This regulation is also stated on the residence permit. During the semester, students are allowed to work up to 20 hours a week.

**Accommodation**

Availability of university accommodation in Aachen is limited. Therefore, participation in individual allocation procedures is usually required. Because of the demand for university accommodation, it can be necessary to switch to the private accommodation market.

Especially family and couples apartments are very high in demand, so that accommodation from the private market is seemingly mandatory. The majority of RWTH Aachen University's students are committed to the private accommodation market.

There are a number of options for finding private accommodation in and around Aachen; the International Office can provide students with information beforehand or upon their arrival.

Prices for university accommodation vary between 300 EUR and 500 EUR per month, accommodation on the private market is priced between 350 EUR and 600 EUR per month, of course depending on the size and the number of rooms.

For short-term accommodation, there are many hotels, a few youth hostels, and a boardinghouse located in and around Aachen (reservation is recommended).

Please visit <https://www.rwth-aachen.de/housing> for further information.

**Career advisory service**

The RWTH Aachen University Career Center offers support by providing opportunities that strengthen your professionalism and exercise your individual skills in the application process. All enrolled RWTH Aachen University students can participate in the seminars at the career center. Please find more information online: <https://www.rwth-aachen.de/go/id/sff/?lidx=1>.

**Support for international students and doctoral candidates**

- Welcome event
- Buddy programme
- Cultural and linguistic preparation
- Visa matters



## Civil Engineering RWTH Aachen University – All About Water

This is the official YouTube channel of the Open Educational Resource Initiative of the Faculty of Civil Engineering at RWTH Aachen University. This channel offers a variety of videos showing the many facets of basic and current research in the area of civil engineering.

» more:

[https://www.youtube.com/watch?v=OTDdz1Lc3oY&list=PLxQWK4LR7JyM1NAmsZR3g\\_WVbgeE5Y1wp](https://www.youtube.com/watch?v=OTDdz1Lc3oY&list=PLxQWK4LR7JyM1NAmsZR3g_WVbgeE5Y1wp)

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# RWTH Aachen University

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RWTH Aachen main building

© Peter Winandy

With 260 institutes in nine faculties, RWTH Aachen University is one of Europe's leading institutions for science and research. Currently, more than 47,000 students are enrolled in 173 academic programmes. More than 14,150 of them are international students hailing from 138 different countries. The scientific education students receive at RWTH Aachen University is firmly rooted in real-world application. As a result, our graduates are highly sought after by businesses to work as trainees and fill executive positions. National and international rankings show that our graduates have a high aptitude for managing complex tasks, constructively solving problems in teams, and taking on leadership responsibilities. Thus, it should come as no surprise that one in five board members of German corporations is an alumnus of

RWTH Aachen University.

Work conducted in the research centres at RWTH Aachen University is strongly oriented towards the current needs of industry, commerce, and the professions. This has resulted in numerous innovations, patents, and licences. The individual competence centres at RWTH Aachen University collaborate effectively across departments and faculties in interdisciplinary groups and forums, while still maintaining a strong focus on their own department specialisation. For instance, the computer science and biology departments – and even the social sciences – all have a clear connection to the school's engineering focus. This has been a crucial factor in motivating multinational corporations such as Philips, Microsoft, and Ford to locate their research institutions in the Aachen region. Excellence in teaching and research constitutes the basis from which RWTH Aachen University works with other leading institutions and technical universities around the world.



## University location

As Germany's westernmost city, Aachen is located on the borders of Belgium and the Netherlands. Its population is about 260,000. Aachen's historic centre around the distinctive cathedral (UNESCO world heritage site) is characterised by a student lifestyle. At the city's doorstep, the hilly Eifel landscape with its rivers, lakes, and forests offers a picturesque countryside for outdoor recreation. Aachen benefits from its central location in the heart of Europe!

## Contact

**RWTH Aachen University**  
Faculty of Civil Engineering

Mies-van-der-Rohe-Str. 1  
52074 Aachen

✉ [support@fb3.rwth-aachen.de](mailto:support@fb3.rwth-aachen.de)

🌐 Course website: <https://www.fb3.rwth-aachen.de/cms/bauingenieurwesen/Studium/Studiengaenge/Masterstudiengaenge/~ohjo/Sustainable-Management-Water-und-Energ/?lidx=1>

● <https://twitter.com/RWTH>

📷 <https://www.instagram.com/rwthaachenuniversity/?hl=de>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## 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](http://www.daad.de)

## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://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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