



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## MSc Mineral Resources Engineering – Repository Safety

RWTH Aachen University • Aachen

### Overview

Degree	Master of Science (MSc)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>The courses and Master's thesis of the specialisation are offered in English.</p> <p>Although German is not necessary, we strongly advise students to obtain basic knowledge of the language for everyday use. Therefore, the RWTH Aachen University offers German language courses at the RWTH Language Center.</p>
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	<p>Non-EU applicants: 1 March for the following winter semester (starting in October) or 1 September for the following summer semester (starting in April)</p> <p>EU applicants: 15 July for the following winter semester (starting in October) or 15 January for the following summer semester (starting in April)</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The specialisation in "Repository Safety" is a further cornerstone of the Master's programme in Mineral Resources Engineering. As an additional pillar, it complements purposefully the existing specialisations of "Mining" and "Recycling" and expands the topic of sustainable handling of raw materials and energy sources to include the aspect of protecting future generations from the harmful effects of ionising radiation of radioactive waste.</p> <p>The programme is interdisciplinary, practice-oriented and international, all lectures are held in English. By integrating competencies in the natural sciences and engineering with socio-political concerns, the specialisation provides graduates with comprehensive analytical, methodological, assessment and problem-solving skills that open up a very broad field of professional activity.</p>

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## Course Details

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### Course organisation

The specialisation is structured over four semesters. In the first two semesters, students learn the fundamentals of the field of final disposal, and in the second semester, they are introduced to additional topics from the disciplines of raw materials engineering and geosciences.

The third semester offers a mobility window in which students can choose between spending a semester abroad, working on research projects, excursions, industrial internships or thematic lectures offered at the RWTH university in the scope of final disposal. This structure allows students to specialise according to their interests and to deepen their education in specific areas of their choice.

The fourth semester is reserved to complete both the Master's thesis and a professional internship at institutions that are active within the field of final disposal.

### A Diploma supplement will be issued

Yes

### International elements

- Integrated study abroad unit(s)
- Specialist literature in other languages
- Study trips
- Projects with partners in Germany and abroad

### Integrated study abroad unit(s)

During the "mobility window" in the third semester, students can choose between spending a semester abroad, working on research projects, excursions, industrial internships or thematic lectures offered at the RWTH university in the scope of final disposal.

### Course-specific, integrated German language courses

No

### Course-specific, integrated English language courses

No

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## Costs / Funding

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### Tuition fees per semester in EUR

None

### Semester contribution

Approx. 300 EUR per semester (including semester ticket for public transport). There is no special fee for international students.

### Costs of living

Please note that single individuals have to give proof of a minimum income of 659 EUR per month at the immigration office in Aachen in order to be eligible for an extension of their residence permits.

### Funding opportunities within the university

Yes

Description of the above-mentioned funding opportunities within the university

<https://www.rwth-aachen.de/cms/root/studium/Im-Studium/~ehg/Stipendien-Foerderung/?lidx=1>

## Requirements / Registration

### Academic admission requirements

For the specialisation of "Repository Safety", a total of at least 75 CP are required, which are distributed as follows:

A minimum of 55 CP from engineering fundamentals:

- mathematics
- mechanics
- chemistry
- electrical engineering
- heat engineering
- machinery
- thermodynamics
- process engineering
- informatics
- technical drawing

At least 20 CP from the area of technical basics:

- raw materials technology / extraction
- raw materials / energy law
- processing methods
- recycling technology
- geology and mineralogy
- surveying technology
- environment and sustainability

The proven achievements must be comparable to those of the Bachelor's degree programmes in raw materials engineering, sustainable raw materials and energy supply and applied geosciences or georesource management at RWTH Aachen University.

If applicants are required to catch up with more than 30 CP, admission to the Master's programme is not possible.

### Language requirements

English B2

### Application deadline

Non-EU applicants: 1 March for the following winter semester (starting in October) or 1 September for the following summer semester (starting in April)

EU applicants: 15 July for the following winter semester (starting in October) or 15 January for the following summer semester (starting in April)

### Submit application to

<https://www.rwth-aachen.de/cms/root/studium/Vor-dem-Studium/Bewerbung-um-einen-Studienplatz/Master-Bewerbung/~dqml/Bewerbung-Master-Internationale/?lidx=1>

## Services

### Possibility of finding part-time employment

International students may take up work in the private sector during the semester or the semester break up to three months without having obtained a work permit. Students thus may take up full-

time work for 90 days or part-time positions (up to four hours per day) for 180 days. This regulation is also stated on the residence permit. During the semester, students are allowed to take up jobs with up to 19 working hours a week. During the semester break, students may work full-time but only for a maximum of 13 consecutive weeks.

Student assistants are more flexible with regard to working hours because the full- and part-time regulations do not apply. As a student assistant, you are allowed to work up to 19 hours per week throughout the year.

#### Accommodation

"Studierendenwerk Aachen"

<https://www.studierendenwerk-aachen.de/en/housing.html>

Availability of university accommodation in Aachen is limited. Participation in individual allocation procedures is therefore usually required. Because of the high demand for university accommodation, it may be necessary to resort to the private accommodation market.

As family and couple apartments are particularly high in demand, applicants interested in this type of accommodation will almost definitely need to draw on the private accommodation market like the majority of RWTH Aachen University's students.

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

#### Career advisory service

Career Center of RWTH Aachen

<https://www.rwth-aachen.de/cms/root/Studium/Nach-dem-Studium/~ejx/Karriere/?lidx=1>

#### Support for international students and doctoral candidates

- Welcome event
- Buddy programme

## Contact

### RWTH Aachen University

Fachgruppe für Rohstoffe und Entsorgungstechnik

Wüllnerstr. 2  
52062 Aachen

✉ [charlier@els.rwth-aachen.de](mailto:charlier@els.rwth-aachen.de)

🌐 Course website: <https://www.rohstoffe.rwth-aachen.de/cms/rohstoffe-und-entsorgungstechnik/Die-Fachgruppe/Meldungen/~qhpf/Ausschreibung-fuer-eine-Bachelorarbeit/?lidx=1>

📘 <https://www.facebook.com/frerwth>

📷 [https://www.instagram.com/fre\\_rwth](https://www.instagram.com/fre_rwth)

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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)

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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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