



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Data Science

RWTH Aachen University • Aachen

Overview

Degree	Master of Science in Data Science
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English. The programme offers a lot of electives in English. There may also be electives in German, but these are additional choices and are not required.
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	<p>Non-EU applicants:</p> <ul style="list-style-type: none">1 March for the following winter semester1 September for the following summer semester <p>EU applicants:</p> <ul style="list-style-type: none">15 July for the following winter semester15 January for the following summer semester <p>Click here for details and exceptions.</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Data Science deals with the extraction of knowledge and usable information from data. The available data sets are often very large, heterogeneous, and partially unreliable. Data Science is an interdisciplinary field with its roots in computer science, mathematics, and statistics, and it has a strong link to various application areas.</p> <p>The essential constituents of data science are data analysis and systems engineering. Therefore, this course of study will convey modern methods of data analysis as well as algorithms and techniques for the development of information systems.</p>

Course Details

Course organisation

The standard duration of the study is four semesters (two years). In each semester, about 30 credits have to be achieved in lectures from different areas, seminars, labs, and the Master's thesis in the fourth semester.

The curriculum consists of a foundational area with basic and advanced courses on core subjects of data science, and an area of specialisation that can be computer science, mathematics, or one of the application areas in business analytics, computational life science, computational social science, or physics.

A Diploma supplement will be issued

Yes

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

Costs / Funding

Tuition fees per semester in EUR

None

Semester contribution

Approx. 300 EUR

Costs of living

The average cost of living and studying, including food, accommodation, personal and social expenses, and study-related costs, is estimated to be about 1,100 EUR per month. For more information, [click here](#).

Funding opportunities within the university

No

Requirements / Registration

Academic admission requirements

The academic requirements for the MSc Data Science are as follows:

1. A Bachelor's degree in computer science, mathematics, physics or a closely related area
2. One of the profiles computer science, mathematics or physics must be fulfilled. The profiles in detail can be found [here](#).
3. Applicants that do not have an EU citizenship or a German "Abitur" need a GRE test with the following scores:
 - Quantitative Reasoning: minimum 75th percentile
 - Verbal Reasoning: minimum 15th percentile
 - Analytical Writing: minimum score 3.5

The ECTS and the content description of a module can be found in the electronic lecture directory:

[RWTHonline](#). The contents of the modules must be comparable to the RWTH's modules.

Language requirements

For English-taught programmes at RWTH Aachen University, candidates must be able to speak and write fluently in English. We require certain English language skills, as [listed here](#).

Application deadline

Non-EU applicants:

- 1 March for the following winter semester
- 1 September for the following summer semester

EU applicants:

- 15 July for the following winter semester
- 15 January for the following summer semester

[Click here](#) for details and exceptions.

Submit application to

<https://online.rwth-aachen.de>

Services

Possibility of finding part-time employment

International students have very limited options of working while studying. Therefore, it is not possible to finance your entire studies by working. There are teaching and research assistant positions available. However, these positions are normally first awarded to students who have already started their academic studies in a programme.

Students working as teaching or research assistants may work a maximum of 19 hours a week. By law, a student from outside the EU is permitted to work either 120 full days or 240 half days per calendar year. We do caution students to be careful about taking on outside work commitments, as completing a Master's degree within the designated two years will be difficult if a student spends too much time away from his or her studies.

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Visa matters
- Help with finding accommodation
- Support with registration procedures

General services and support for international students and doctoral candidates

The International Office's Info Service Centre (ISC) provides information and services for international students and visiting scientists at RWTH Aachen University upon their arrival in Aachen. RWTH Aachen University offers the following assistance to international students and scientists:

- accommodation information
- assisting students during admission procedures
- registering your address with local authorities
- opening a bank account
- insurance matters
- locating pertinent university and city offices
- tips for finding a job in Aachen

These services are offered to students during the orientation phase at the beginning of each semester. The ISC offers a social programme called "Leisure and Pleasure" and publishes a monthly newsletter for international students and scientists.

RWTH Aachen University

With 260 institutes in nine faculties, RWTH Aachen University is one of Europe's leading institutions for science and research. Currently, more than 44,500 students are enrolled in 144 academic programmes. More than 8,500 of them are international students hailing from 130 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

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🌐 Course website: <https://www.data-science.rwth-aachen.de/cms/Data-Science/Studiengaenge/~bzlv/M-Sc-Data-Science/?lidx=1>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

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Disclaimer

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