



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Applied Data Science (MSc)

University of Göttingen • Göttingen

### Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	The teaching language is English. Only some elective courses are held in German.
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	<ul style="list-style-type: none"><li>1 May for applications for the winter semester</li><li>1 November of the preceding year for applications for the summer semester</li></ul>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Data scientists know how to extract knowledge from data. They combine skills in mathematics, computer science, statistics and specific knowledge in an application domain. In Göttingen, we place special emphasis on the interdisciplinary nature of data science. We want to equip you with in-depth knowledge of the key mathematical, statistical and computer science methods for data science, and we also want to make sure that you understand how to apply these methods in an application domain. You can choose from Computational Neuroscience, Bioinformatics, Medical Data Science, Digital Humanities, and Computational Sustainability. Additionally, the new application domain "Digital Business Administration" will be available soon.</p> <p>Our Master's programme is research-oriented, and it should enable you to carry out scientific research projects autonomously. Moreover, we want to teach you how to communicate your insights and reflect on the ethical impacts of collecting and analysing large amounts of data as well as the consequences of automated data-driven decision-making. Beyond research, we also provide the opportunity for internships and interactions with industry partners.</p>

## Course Details

Course organisation	<p>The Master's programme in Applied Data Science is a graduate programme that requires 120 ECTS to be successfully completed. The programme includes three areas of study: (1) the core curriculum, (2) the area of professionalisation and (3) the Master's thesis.</p> <p>The core curriculum covers important data science methods from computer science, mathematics and statistics as well as ethical aspects of data science.</p> <ul style="list-style-type: none"><li>• Fundamentals of Data Science</li><li>• Statistical methods of Data Science</li><li>• Computer Science methods of Data Science</li><li>• Machine Learning methods</li></ul> <p>In the area of professionalisation, students get many opportunities to study tailored to their individual and subject-specific inclinations as well as their professional ambitions. They choose one application domain, such as Computational Neuroscience, Bioinformatics, Medical Data Science, Digital Humanities, and Computational Sustainability. Furthermore, they carry out a research lab rotation or an industry internship and acquire additional key competencies.</p> <ul style="list-style-type: none"><li>• Application domain</li><li>• Key competencies</li><li>• Elective courses in data science</li></ul>
International elements	<ul style="list-style-type: none"><li>• Language training provided</li><li>• Training in intercultural skills</li></ul>
Integrated internships	Research lab rotation or industry internship (12 ECTS)
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	<p>Fees are around 400 EUR per semester. The fees usually include a prepaid semester ticket that entitles students to use regional trains (in Lower Saxony and Bremen) and city buses in Göttingen free of charge. Students of the University of Göttingen receive discounts for cultural events. Meals and drinks are also available at reduced prices at all university canteens.</p> <p>Fees: <a href="http://www.uni-goettingen.de/fee">http://www.uni-goettingen.de/fee</a> Semester ticket: <a href="http://www.uni-goettingen.de/en/16432.html">http://www.uni-goettingen.de/en/16432.html</a></p>
Costs of living	<p>The average cost of living in Göttingen is modest compared to other major university cities in Germany. For further information, please see the following link: <a href="http://www.uni-goettingen.de/en/54664.html">www.uni-goettingen.de/en/54664.html</a>.</p>

Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	<p>Germany Scholarship (Deutschlandstipendium): <a href="https://uni-goettingen.de/en/218085.html">https://uni-goettingen.de/en/218085.html</a></p> <p>Lower Saxony scholarship (Niedersachsenstipendium): <a href="https://uni-goettingen.de/en/306042.html">https://uni-goettingen.de/en/306042.html</a></p>

## Requirements / Registration

Academic admission requirements	<p>A Bachelor's degree with at least 180 ECTS is needed. If the degree has not yet been awarded, a minimum of 135 ECTS is required for application.</p> <p>At least 60 ECTS have to be successfully completed in the area of data science, computer science, statistics, mathematics or a related field. This requirement should normally be fulfilled by a Bachelor's degree in data science, computer science, statistics, mathematics or a closely related degree programme.</p> <p>Graduates from other fields can be eligible as well; 15 ECTS of the above requirements can be completed after admission, i.e. the minimum requirement for application is 45 ECTS.</p> <p>All international applicants are required to take an online aptitude test, which examines basic knowledge in mathematics, statistics and computer science. A few days after the end of the application period, the test and personal login credentials will be sent to all applicants via e-mail. Furthermore, all applicants who are on the shortlist for the programme will be invited to a personal interview, conducted as a video call.</p>
Language requirements	<p>English language proficiency at level C1 (CEFR) has to be proven. <b>Alternatively</b>, a proof of English language proficiency at level B2 (CEFR) is accepted in combination with a proof of German language proficiency equivalent to DSH level 2.</p> <p>The language proficiency has to be verified by a minimum passing grade on an internationally recognised test or by equivalent proof. The test may not be taken later than two years prior to submission of the application for admission to the Master's degree programme (date received). For details on possible verifications, see: <a href="https://www.uni-goettingen.de/en/630842.html">https://www.uni-goettingen.de/en/630842.html</a>.</p>
Application deadline	<ul style="list-style-type: none"> <li>• 1 May for applications for the winter semester</li> <li>• 1 November of the preceding year for applications for the summer semester</li> </ul>
Submit application to	Online application portal: <a href="https://www.uni-goettingen.de/en/642406.html">https://www.uni-goettingen.de/en/642406.html</a>

## Services

Accommodation	<p>The Accommodation Service of the International Office supports international students who are enrolled at the University of Göttingen in finding accommodation and serves as a point of contact for related queries. The Accommodation Service also publishes suitable offers from private landlords in Göttingen and collaborates with the Student Services ("Studentenwerk"). As the number of available accommodation options in Göttingen is limited, it is highly recommended to contact the Accommodation Service as early as possible.</p> <p>For further information, please see the following link: <a href="https://www.uni-goettingen.de/en/642406.html">https://www.uni-goettingen.de/en/642406.html</a></p>
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#### Career advisory service

The Career Service of the University of Göttingen offers individual support to facilitate your successful transition from the academic to the professional world — whether you want to work in Germany or abroad. Especially for international students aiming for a career entry in Germany, the Career Service provides topic-specific "Career Impulse Sessions", workshops, online learning modules, and a qualification programme in "Building International Careers" as well as digital career tools and a virtual community for international employment opportunities: [www.uni-goettingen.de/en/292.html](https://www.uni-goettingen.de/en/292.html).

#### Support for international students and doctoral candidates

- Buddy programme
- Welcome event

#### General services and support for international students and doctoral candidates

- International Office of the Faculty: <https://www.uni-goettingen.de/en/631614.html>
- International Office of the University: <https://www.uni-goettingen.de/en/574687.html>

## Contact

### University of Göttingen

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✉ [studienberatung@informatik.uni-goettingen.de](mailto:studienberatung@informatik.uni-goettingen.de)

🌐 Course website: <https://www.uni-goettingen.de/msc/datascience>

📘 <https://www.facebook.com/ifi.uni.goettingen>

🐦 <https://twitter.com/unigoettingen>

🌐 <https://www.linkedin.com/school/-university-of-goettingen>

📷 <https://www.instagram.com/unigoettingen/>

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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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## 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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