



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Master of Science in Laboratory Animal Science

RWTH Aachen University • Aachen

Overview

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| Degree | Master of Science in Laboratory Animal Science |
| Teaching language | <ul style="list-style-type: none">English |
| Languages | The courses are held in English. |
| Full-time / part-time | <ul style="list-style-type: none">part-time (study alongside work) |
| Mode of study | Hybrid |
| Programme duration | 4 semesters |
| Beginning | Winter semester |
| Application deadline | 15 July |
| Tuition fees per semester in EUR | 6,650 EUR |
| Additional information on tuition fees | <p>The tuition fees are 6,650 EUR per semester (26,600 EUR in total, four-semester regular study period). The fees do not include accommodation and travel costs but do include all of the documentation and catering during the on-site learning days.</p> <p>Early booking discounts apply.</p> |
| Combined Master's degree / PhD programme | No |
| Joint degree / double degree programme | No |
| Description/content | <p>The MSc Laboratory Animal Science is a FELASA accredited, two-year, career-accompanying study course.</p> <p>In the first three semesters, three compulsory thematic blocks (55 ECTS) are taught:</p> <ul style="list-style-type: none">ethics and legislation in relation to the use of laboratory animalsmanagement and planning of animal facilities and animal experimentslaboratory animal science |

Additionally, during the first three semesters, an elective course (5 ECTS) has to be completed. The elective modules are:

- In vivo Pharmacology and Applied Toxicology
- Applied Anaesthesia and Microsurgery, including Medical Technology and Imaging

In the first three semesters, online seminars will be held outside of regular office hours twice a week. These online seminars are supported by an e-media skills lab and further complemented by literature reviews and homework.

At the end of each of these semesters, there is a compulsory 10-day attendance block in Aachen, Germany, during which skill training is performed in the Aachen University Hospital's facilities, group discussions are held, and case studies are conducted.

The fourth semester is dedicated to the completion of a scientific Master's thesis (30 ECTS). The thesis can be literature-based or based upon experimental data generated.

Graduates of the MSc Laboratory Animal Science will be able to:

- take on leading roles dealing with laboratory animal science, animal housing facilities, and animal welfare bodies
- apply special knowledge using the latest methodology and generate scientific data to the highest standards
- independently plan, conduct, evaluate, and improve animal experiments

In addition to the Master of Science degree from RWTH Aachen University, graduates will receive the FELASA certificate for specialists in laboratory animal science (LAS) (including EU functions A, B, & D)

Course Details

Course organisation

Modules in the first three semesters:

- Module 1: Ethics and Philosophy; National and International Law
- Module 2: Regulatory Affairs
- Module 3: Biostatistics and Biometrics; Design and Evaluation of Animal Experiments; Architecture and Facility Design, Financial, Hygiene, and Quality Management
- Module 4: Replacement, Supplementation, and Alternatives to Animal Experiments
- Module 5: Genetics and Breeding; Anatomy and Physiology
- Module 6: Pathology and Diseases; Biochemistry, Haematology, and Molecular Biology in Biomedicine
- Module 7: Animal Models in Biomedical Research; Anaesthesia and Experimental Surgery

Elective modules:

- Module 8: Applied Anaesthesia and Microsurgery; Medical Technology and Imaging
- Module 9: In vivo Pharmacology and Applied Toxicology

Fourth semester:

- Module 10: Master's thesis and colloquium

A Diploma supplement will be issued

Yes

Certificates for specific modules are awarded

Yes

International elements

- Courses are led with foreign partners

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| | <ul style="list-style-type: none"> • International guest lecturers |
| Course-specific, integrated German language courses | No |
| Course-specific, integrated English language courses | No |

Costs / Funding

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|--|--|
| Tuition fees per semester in EUR | 6,650 EUR |
| Additional information on tuition fees | <p>The tuition fees are 6,650 EUR per semester (26,600 EUR in total, four-semester regular study period). The fees do not include accommodation and travel costs but do include all of the documentation and catering during the on-site learning days.</p> <p>Early booking discounts apply.</p> |
| Semester contribution | <p>The semester fee of RWTH Aachen University is approx. 320 EUR per semester (includes the semester ticket for public transport within the whole state of North Rhine-Westphalia, part of Belgium and part of the Netherlands) and is unrelated to RWTH International Academy's fees.</p> <p>Please visit: aachen.de/re-enrollment/?lidx=1</p> |
| Funding opportunities within the university | Yes |
| Description of the above-mentioned funding opportunities within the university | <p>A limited number of scholarships from various organisations are available to help students finance their studies. Please see the following website for a list of exchange programmes, scholarships, and grants as well as specific application requirements and conditions. Alternatively, students can contact the International Academy directly for advice and assistance.</p> <p>http://www.rwth-aachen.de/scholarships</p> <p>Scholarships – MSc Laboratory Animal Science (master-laboratory-animal-science.com)</p> |

Requirements / Registration

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|---------------------------------|---|
| Academic admission requirements | <p>Entry requirements:</p> <ul style="list-style-type: none"> • Legal certification as a scientist, physician, veterinarian, or an equivalent qualification • Sufficient relevant work experience • Proof of English language skills <p>For the admission procedure the following documents are required:</p> <ol style="list-style-type: none"> 1. University degree certificate and transcript of records 2. Curriculum vitae and motivation letter 3. Proof of working experience in the field of laboratory animal sciences 4. Proof of English language qualification (level B2, see below for details) |
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Language requirements

English language skills: If you are not a native speaker or have not received your initial degree from a university programme conducted in English, proof of ability will be required, e.g.:

- Test of English as Foreign Language (TOEFL) Internet-based Test (IBT) with a score of at least 90 points
- International English Language Testing Systems (IELTS) Academic Test with a score of at least 6.0
- Cambridge Test – B2 First (formerly Cambridge English: First / FCE) with a grade of at least B
- Cambridge Test – C1 Advanced (formerly Cambridge English: Advanced / CAE)
- Cambridge Test – C2 Proficiency (formerly Cambridge English: Proficiency / CPE)
- Pearson Test of English (PTE) Academic with a score of at least 60 points
- UNlcert II or higher
- Or you may present a certificate that was obtained as part of the school education required by law in the respective country and that demonstrates English language proficiency at level B2 of the Common European Framework of Reference for Languages (CEFR). This proof is provided, for example, by submitting a German Abitur certificate which shows that English was taken continuously until the end of qualification phase one (year 11 for G8 Abitur, otherwise year 12) and completed with at least sufficient grades
- Or you may present placement test results from the RWTH Language Centre at level B2.2.1 (formerly MK 7) or higher. This test can only be taken by enrolled students or by RWTH or UKA staff.

Application deadline

15 July

Submit application to

The application process is **100% digital** – there is no need to send us any paper copies by mail!

Please submit your application and all of the necessary documents via [RWTH Online!](#)

Services

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🌐 Course website: <https://bit.ly/4aNLdkO>

📘 <https://www.facebook.com/RWTHInternationalAcademy>

🐦 <https://twitter.com/rwthmedicalprog>

🌐 <https://www.linkedin.com/company/5098865/>

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

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