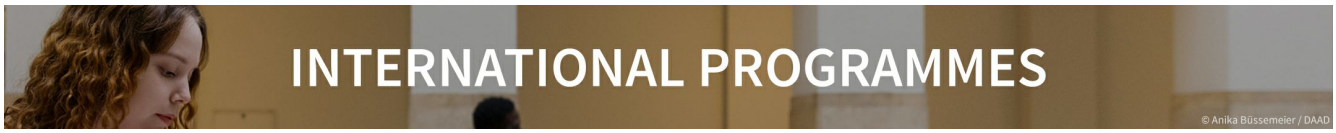
Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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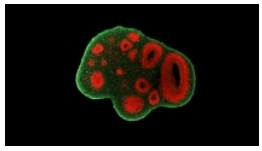
Master's degree

Regenerative Biology and Medicine

Dresden University of Technology • Dresden




Overview

Degree	Master of Science
Teaching language	• English
Languages	English (100%)
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 May for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Regenerative Biology and Medicine (RegBioMed) is an international Master's programme that has nurtured academia- and industry-ready graduates for over a decade. Join us and discover how stem cells, molecular biology, and tissue engineering converge to shape the regenerative medicine of the future. Dive into one of the most rapidly developing fields at the interface of science and clinical practice. During the course of the studies, you will be guided by renowned scientists from the Center for Regenerative Therapies Dresden. Their expertise is complemented by their colleagues from the Biotechnology Center (BIOTEC), the Medical Faculty Carl Gustav Carus, the Faculty of Mathematics and Science of TU Dresden, and the Max Planck Institute of Molecular Biology and Genetics. The Regenerative Biology and Medicine programme is not your ordinary classroom experience. It is a fusion of theoretical classes and hands-on experience. On top of various lab practicals, you will have two extensive laboratory rotations in the second and third semesters. You will work on your individual lab project for 12 weeks side by side with leading experts at the Center for Regenerative Therapies Dresden (CRTD) and its cooperating institutes and clinics.

	After learning the fundamentals of regenerative biology in the first semester, you will transition to the second semester, where you choose one of three focus areas: • Regenerative Cell Biology – offers in-depth knowledge of the central molecular and cellular mechanisms of development and regeneration of tissues and organs of the most important model organisms and the associated current experimental analysis methods. • Regenerative Neuroscience – covers in-depth knowledge of cellular, molecular, systemic, and regenerative neurosciences and the associated current experimental analysis methods as well as the clinical concepts of diseases for which neuro-regenerative therapies exist or are in development. • Regenerative Medicine – offers in-depth knowledge of the pathology of diseases and the affected organ systems as well as the associated clinical concepts of regenerative medicine including the translation process from bench to bedside.

Course Details

Course organisation	The course structure is modular. The courses are evenly spread over three semesters. The entire fourth semester is dedicated to a Master's thesis. You can choose from a variety of research topics and work in the excellent research environment of the Center for Regenerative Therapies Dresden (CRTD) or reach out to research groups at other TU Dresden departments, the clinic, or partner institutes. The programme comprises nine compulsory modules, one elective module, and a track that is chosen after the first semester. The tracks or focus areas are: (1) Developmental and Regenerative Cell Biology (DevReg), (2) Regenerative Neuroscience (RegNeuro) and (3) Regenerative Medicine (RegMed). » PDF Download
A Diploma supplement will be issued	Yes
International elements	• International guest lecturers • Language training provided
Description of other international elements	The programme is taught entirely in English. Many of the professors and researchers are from abroad, exposing the students to a very international atmosphere. The working language at the institute is also English. We offer in-house German courses.
Integrated internships	The students need to complete two lab rotations in the fields of (1) Molecular Biology Research and (2) Cell, Organ and Model Organism Based Research. These are part of the curriculum and comprise 225 hours each. The student office will assist students in finding a placement.
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	Currently, students pay approx. 290 EUR per semester (i.e. for six months). This includes the Deutschland-Ticket, a ticket for most local public transport (bus, tram, ferry, S-Bahn) and regional trains in all of Germany incl. Dresden. Students can also use a bike rental service all over the city of Dresden for free for 30 minutes. The contribution also assures concessions in the university cafeterias and offers benefits (e.g. price reductions) for many cultural and leisure activities.
Costs of living	Dresden offers high quality of living at very moderate costs. Currently, students should expect to pay around 850 EUR per month including rent, food, insurance and basic expenses. This figure is relatively low compared to other big German cities.
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	Deutschlandstipendium, special grant opportunities for thesis semester by CRTD e.V. General information on scholarships and funding for students is summarised on a dedicated web page of the TU Dresden.

Requirements / Registration

Academic admission requirements	Our programme is targeted towards students who have: • a first university degree in biology or medicine or a similar degree (e.g. biotechnology, biochemistry, etc.) qualifying for a profession where comparable previous knowledge is needed, especially in molecular and cell biology • a strong command of the English language • solid knowledge in biology or medicine and solid laboratory experience • interest in cell and molecular biology research with a clinical connection in the field of regenerative medicine • inquisitiveness, initiative, and independent thinking
Language requirements	We require a strong command of the English language. Non-native speakers need to provide proof of their language proficiency, e.g. TOEFL iBT: minimum level 92 points or IELTS: minimum level 6.5. Certificates of other tests of equivalent standard will also be considered.
Application deadline	31 May for the following winter semester
Submit application to	https://tud.de/online-bewerbung Additionally, an application in our online database is mandatory. A link will be provided on the course website.

Services

Possibility of finding part-time employment	In order to top up their budget, some students may want to look for temporary work in Dresden. If so, different regulations apply for students from EU member states, countries of the European

	Economic Area (EEA) and Switzerland, and students from outside the European Union and the EEA area. In addition, restrictions on the duration of employment may apply. Professors, lecturers and group leaders involved in the Master's programme may offer students the possibility of working as academic assistants. However, living expenses can be financed only partially through a job as an academic assistant.
Accommodation	It is still relatively easy to find affordable accommodation in Dresden. Accommodation is available either via the "Studentenwerk Dresden" or on the private market. Rent for a single room in a student residence is approx. 250 EUR per month. Private housing can be found online. We recommend that you move into a hall of residence at the beginning of your stay in Dresden. Subsequently, you can look for a place on the private market or in a shared apartment, which is known as a "Wohngemeinschaft" in German.
Career advisory service	TU Dresden offers plenty of counselling and training by the Career Service to help students with finding professional orientation. They offer workshops to equip students with professional skills and help optimise their CVs. Additionally, there are special workshops for international students to get to know the German and Saxon job market and network.
Support for international students and doctoral candidates	• Welcome event • Specialist counselling • Visa matters
General services and support for international students and doctoral candidates	International student office

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Elena Tonchevska
MSc, RegBioMed Alumna

Being accepted for this Master's programme was a dream come true. It is one of the few that gives you the opportunity to learn about stem cells, regenerative medicine and translational research. It is very international, and you will study with incredible young scientists from all over the world. In my opinion, the best part is to gain insight into the translation of research into clinic. It is incredibly exciting to know how your scientific discovery can eventually change the life of a patient.

Study Life Sciences at the CMCB

Molecular Bioengineering, Physics of Life, and Regenerative Biology and Medicine are two-year Master's programmes in Life Sciences offered by the Center for Molecular and Cellular Bioengineering (CMCB) at TU Dresden.

» more: https://youtu.be/CuNeU-6Ll6E?si=4pQBqXPHCcWQQCeh

Dresden University of Technology

Center for Regenerative Therapies Dresden (CRTD) and the Center for Molecular and Cellular Bioengineering at TU Dresden

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TU Dresden is one of eleven Universities of Excellence in Germany and is among the top universities in Europe: strong in research, it offers first-rate programmes with an overwhelming diversity, with close ties to culture, industry and society. As a modern comprehensive university with five schools (17 faculties), it offers a wide academic range of programmes. With around 29,000 students (18% international) TU Dresden is the largest university in Saxony. It enjoys an outstanding national and international reputation for research in natural and

engineering sciences.
One of the most prominent characteristics of TU Dresden is its dynamic development – a process that has been going on for years and will continue into the future. As a "synergetic university", TU Dresden closely cooperates with external research institutions as well as cultural, industrial, and social organisations. Students also benefit from interdisciplinary collaboration with a focus on practical outcomes. Teaching and research follow the principle of involving both students and graduates into current research early on.

University location

The capital of the Free State of Saxony, Dresden, stands majestically on the river Elbe. The fourth-largest city by area in Germany, Dresden is home not just to riverside palaces, Baroque churches and world-class museums but also to a proud history of science and technology. This finds continuity into the present with the DRESDEN-concept, an alliance of 37 research institutions in and around Dresden, of which TUD is a proud and prominent member. Whether you are interested in theatre, opera, cabaret or cinema, or if you enjoy a stroll through museums or a night out at the pub, Dresden has something to offer for everyone. Students also get an opportunity to be active in the many sports facilities in Dresden, including TU Dresden's own, or in the surrounding nature of the Elbe landscape, the Elbe Sandstone Mountains (Elbsandsteingebirge) or the Ore Mountains (Erzgebirge). The surroundings of the city have plenty to offer and the city is an excellent hub from which to explore Berlin, Prague, Leipzig and Wrocław.

Contact

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