



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## MSc Medical Sciences – Cardiovascular Research

University of Freiburg • Freiburg im Breisgau

### Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	English only
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	2 semesters
Beginning	Winter semester
Application deadline	31 March for the following winter semester
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	<p>Tuition fee for non-EU citizens: 1,500 EUR Tuition fee for EU citizens studying for a second Master's degree in Germany: 650 EUR No tuition fee for EU citizens studying for a first Master's degree in Germany</p> <p><a href="https://www.studium.uni-freiburg.de/en/student-services/study-fees">https://www.studium.uni-freiburg.de/en/student-services/study-fees</a></p>
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p><b>Key Points:</b></p> <ul style="list-style-type: none"><li><b>International, interdisciplinary and integrative</b></li><li><b>Pre-PhD programme:</b> Combined experimental and theoretical training in all facets of cardiovascular science</li><li><b>Student-centric</b> teaching and learning concept with <b>small cohort</b> (six per year!)</li><li><b>State-of-the-art cardiovascular research and medical facilities</b> at one of <b>Germany's top universities</b></li><li>Historic university town with vibrant student life and exceptional recreational opportunities</li></ul> <p>The English-language Master's programme in Medical Sciences – Cardiovascular Research was</p>

designed as a preparatory year for a PhD in the field of cardiovascular research. The curriculum combines a thorough education in general aspects of the structure and function of the cardiovascular system with clinical insights into the diagnosis and treatment of cardiovascular diseases, as well as exposure to "wet and dry lab" basic and clinical work. In the first semester, theoretical and clinical contents as well as interdisciplinary competences are taught, while the second semester focuses on the independent preparation of a Master's thesis and thus on the various aspects of scientific work.

Module components cover theoretical and practical aspects, with a strong focus on hands-on training, from single cardiomyocyte contraction and action potential measurements, to Langendorff beating heart studies, advanced structure-function imaging of healthy and diseased hearts, derivation and evaluation of one's own stress electrocardiogram, and observing open-chest surgery.

In addition to broadening the knowledge and skills base, the course offers an introduction to prerequisites, opportunities, and consequences of medical activity, and it familiarises students with the ethical dimension of medical practice and research.

#### Current information

Please also visit the social media channels of the MSc Medical Sciences:  
[LinkedIn](#) & [Instagram](#)

## Course Details

#### Course organisation

The English-language Master's programme in Medical Sciences – Cardiovascular Research offers a broad and deep familiarisation with the cardiovascular system, and the opportunity to specialise in hands-on cardiovascular research.

The one-year curriculum is divided into two parts: the first consisting of a taught course to develop breadth and depth of understanding in the subject matter and advanced laboratory and clinical techniques; the second is dedicated to implementing an individual research project (= MSc thesis).

» [PDF Download](#)

#### A Diploma supplement will be issued

Yes

#### International elements

- International guest lecturers

#### Description of other international elements

English-taught, international research groups

#### Diverse intercultural background of students

Our students are recruited internationally in an unbiased manner. Within the first two cohorts (10 students), we have representation from four continents.

#### Special promotion / funding of the programme

- Other (e.g. state level)

#### Course-specific, integrated German language courses

No

#### Course-specific, integrated English language courses

No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	1,500 EUR
<b>Additional information on tuition fees</b>	<p>Tuition fee for non-EU citizens: 1,500 EUR Tuition fee for EU citizens studying for a second Master's degree in Germany: 650 EUR No tuition fee for EU citizens studying for a first Master's degree in Germany</p> <p><a href="https://www.studium.uni-freiburg.de/en/student-services/study-fees">https://www.studium.uni-freiburg.de/en/student-services/study-fees</a></p>
<b>Semester contribution</b>	<p>180 EUR per semester:</p> <ul style="list-style-type: none"><li>• Administrative fee: 70 EUR</li><li>• Contribution to the constituted student body: 7 EUR</li><li>• Contribution to the student union: 103 EUR</li></ul>
<b>Costs of living</b>	<p>Participants must ensure that sufficient funding is available to finance their participation in a course of study. The average cost of living in Freiburg for one month is currently approx. 850 EUR to 1,000 EUR.</p> <p>Some details:</p> <ul style="list-style-type: none"><li>• Rooms in private accommodation including extra costs: 350 EUR – 700 EUR</li><li>• Rooms in student residences including extra costs: 250 EUR – 550 EUR</li><li>• Private expenses amount to around 350 EUR per month.</li><li>• Health insurance (recommended) is available for approx. 120 EUR per month.</li><li>• Transport: A special student ticket for regional transport costs approx. 89 EUR per semester.</li></ul> <p><a href="http://www.studium.uni-freiburg.de/en/counseling/welcome-guide-for-international-students/finance">www.studium.uni-freiburg.de/en/counseling/welcome-guide-for-international-students/finance</a></p>
<b>Funding opportunities within the university</b>	Yes
<b>Description of the above-mentioned funding opportunities within the university</b>	Successful candidates can apply for a scholarship. Scholarships will support housing and living costs and allow students to fully focus on the programme.

## Requirements / Registration

<b>Academic admission requirements</b>	<p>Applicants should hold an MSc or a four-year honours BSc (240 ECTS) or equivalent degree with a grade point average of at least 2.0 in life sciences, natural sciences, (bio-)engineering, mathematics, computer sciences, human/veterinary medicine, physiological sciences, or a similar subject. Applications are welcome even if the required degree has not yet been awarded by the time of application, as long as it will be conferred before the course starts in early September.</p>
<b>Language requirements</b>	Proficiency of English language, equivalent to at least level B2 of the Common European Framework of Reference for Languages
<b>Application deadline</b>	31 March for the following winter semester

Submit application to

Online application portal: <https://campus.uni-freiburg.de/>

## Services

### Accommodation

As Freiburg is an attractive city, finding a suitable and affordable place to live can take a little while. The University of Freiburg offers all newly enrolled international students the possibility to apply for student housing via the International Office. In addition to these dormitories, which are run by the Studierendenwerk Freiburg ([www.swfr.de/en](http://www.swfr.de/en)), several independent residence halls are listed on the university website (<http://www.housing.uni-freiburg.de>). The Studierendenwerk Freiburg and the International Office also offer a list of available private rooms.

### Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Help with finding accommodation

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

- Welcome week
- Student advisory service
- Graduate coordinator

## Our Partners



# University of Freiburg

The University of Freiburg was founded in 1457 as a classical comprehensive university, making it one of the oldest institutions of higher education in Germany. Awarded for its excellence in both research and teaching, the university also boasts a long history, with numerous Nobel laureates. Brilliant scholars and creative thinking distinguish it today as a modern, top-notch university, well equipped for the challenges of the 21st century. As an organisation with around 24,500 students, 288 degree programmes, and 6,536 employees (2021), the University of Freiburg is committed to family friendliness, equal opportunities, and environmental consciousness in its day-to-day operations. The structure of the university is multifaceted, ranging from 11 academic faculties – from the humanities and the social and natural sciences all the way to engineering – to 19 research centres. This goes to show that we are a dynamic, large-scale institution with a diverse educational offering. As studies, research, and continuing education are all an integral part of this offering, we maintain a close relationship with the city and the region as well as with the international academic community. Bilateral partnerships, research projects, joint study courses and memberships in international networks such as the League of European Research Universities (LERU) and of EUCOR – The European Campus are examples of the university's strong transnational relations. All our students, including those from abroad, can

take courses at the Universities of Basel (Switzerland) and Strasbourg (France) without having to enrol. Via EUCOR, The European Campus mobility grant, they also receive allowances for travel expenses to their partner institutions.

universität freiburg

## University location

Freiburg im Breisgau is a city in south-western Germany on the edge of the Black Forest. Freiburg was founded by Konrad and Duke Bertold III of Zähringen in 1120 as a free market town – hence its name, which translates to "free town". Freiburg holds a central position in Europe at the trijunction of Switzerland, France, and Germany, and is the city with the most hours of sunshine per year in Germany. It is nestled in one of the oldest cultural landscapes north of the Alps, a location which has had an unmistakable influence on the town. The university plays an essential part in the quality of life in Freiburg; both in the academic sphere and in the perception of the general public, the activities of the university are of central importance. Since its founding, teaching, learning and research have formed an indivisible whole.

With approx. 230,000 inhabitants, Freiburg has a friendly size, offering the safe surroundings of a smaller city whilst at the same time excelling in terms of culture, shopping and infrastructure. Both the inhabitants and the city government of Freiburg attach great importance to ecological values and sustainable development. This "green city" atmosphere influences many aspects of city life – from the numerous cyclists on the streets to cutting-edge solar energy research. Surrounded by the beautiful landscapes of the Black Forest and the wine-growing regions of the Rhine Valley, Freiburg is a popular destination for tourism and leisure activities.

## Contact

### University of Freiburg

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🌐 Course website: <https://www.msc-medsci.uni-freiburg.de/>

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

🐦 <https://twitter.com/UniFreiburg>

🌐 <https://www.linkedin.com/company/albert-ludwigs-universit-t-freiburg-im-breisgau>

📷 <https://instagram.com/unifreiburg/>

📺 <https://www.youtube.com/c/Universit%C3%A4tFreiburg>

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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)

## Editor

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

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