



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



## Table of Contents

<b>Doctorate .....</b>	<b>2</b>
<b>GGNB Physics of Biological &amp; Complex Systems - IMPRS (PhD) • University of Göttingen • Göttinger</b>	<b>2</b>

# Doctorate



## GGNB Physics of Biological & Complex Systems - IMPRS (PhD)

University of Göttingen • Göttingen

### Overview

<b>Degree</b>	PhD (Division of Mathematics and Natural Sciences) or, alternatively, Dr rer nat
<b>In cooperation with</b>	Max Planck Institute for Multidisciplinary Sciences (MPI-NAT), Max Planck Institute for Dynamics and Self-Organization (MPI-DS)
<b>Teaching language</b>	<ul style="list-style-type: none"><li>English</li></ul>
<b>Languages</b>	English
<b>Full-time / part-time</b>	<ul style="list-style-type: none"><li>full-time</li></ul>
<b>Programme duration</b>	6 semesters
<b>Beginning</b>	Only for doctoral programmes: any time
<b>Application deadline</b>	Application is possible independent of deadlines.
<b>Tuition fees per semester in EUR</b>	None
<b>Combined Master's degree / PhD programme</b>	No
<b>Joint degree / double degree programme</b>	No
<b>Description/content</b>	<p>Building upon the increasingly strong links between physics, chemistry and the life sciences, the programme aims at advancing the quantitative and molecular understanding of life processes while at the same time exploring new frontiers of physics.</p> <p>Research topics include biomolecular structure and dynamics, biological membranes, the underlying cytoskeleton, motor proteins, cell division and intracellular transport, communication and sensory processes as well as structure and pattern formation in systems of interacting cells and tissues (heart muscle).</p> <p>The programme offers cutting-edge advanced microscopy and teaches the basics of new cutting-edge techniques essential for studying life processes in combination with quantitative physical approaches and synthetic strategies. An important aim is to overcome traditional barriers between disciplines and expose graduate students to physics, chemistry and biology for a deeper understanding of all areas, preparing students for increasingly interdisciplinary life sciences.</p>

## Course Details

<b>Course organisation</b>	<p>The doctoral programme in "Physics of Biological and Complex Systems" is offered by the Göttingen Graduate Center for Neurosciences, Biophysics, and Molecular Biosciences (GGNB). The programme is also recognised and funded as an International Max Planck Research School.</p> <p>The research-oriented programme is taught in English and open to students who hold a Master's degree (or equivalent) in physics, chemistry, life sciences, or related fields.</p> <p>The GGNB offers an integrated training and qualification concept consisting of:</p> <ul style="list-style-type: none"><li>• Thesis advisory committees advising the doctoral student and monitoring the progress of the doctoral project</li><li>• Scientific methods courses, seminars and summer schools in all science areas covered by the graduate school</li><li>• Professional skills courses in the four categories of Scientific Communication; Good Scientific Practice, Ethics, and Intellectual Property; Self-Management and Organisational Skills; and Career Development as well as German language courses and courses on scientific English</li><li>• Industry excursions to biotechnological, pharmaceutical, optical or (bio)physical companies, guided by GGNB alumni</li><li>• Student-organised scientific symposia and career-related events</li><li>• Annual PhD retreats organised by the programmes</li></ul> <p>In total, 20 credits are required, and doctoral students can tailor their individual curricula by choosing from all courses and events. Only a seminar on good scientific practice is mandatory.</p> <p>The doctoral students hold at least three annual Thesis Advisory Committee meetings within the regular PhD time of three years. The maximum duration of PhD studies in GGNB is four years.</p>
<b>A Diploma supplement will be issued</b>	No
<b>International elements</b>	<ul style="list-style-type: none"><li>• Language training provided</li><li>• Training in intercultural skills</li><li>• Projects with partners in Germany and abroad</li></ul>
<b>Integrated internships</b>	Option of research collaboration with other research institutions
<b>Special promotion / funding of the programme</b>	<ul style="list-style-type: none"><li>• IMPRS</li></ul>
<b>Course-specific, integrated German language courses</b>	Yes
<b>Course-specific, integrated English language courses</b>	Yes

## Costs / Funding

<b>Tuition fees per semester in</b>	None
-------------------------------------	------

EUR

**Semester contribution** Fees are around 400 EUR per semester. The fees include a prepaid semester ticket that entitles students to use regional trains in Germany free of charge.  
Fees: <http://www.uni-goettingen.de/fee>  
Semester ticket: <http://www.uni-goettingen.de/en/16432.html>

**Costs of living** The average cost of living in Göttingen is modest compared to other major university cities in Germany. Currently, expenses for accommodation, food, health insurance and books are approx. 1,000 EUR per month. Please note that fees for health insurance may vary according to age. Living expenses might be slightly higher.

Students of the University of Göttingen receive discounts for cultural events. Meals and drinks are also available at reduced prices at all university canteens.

For further information, please see the following link: [www.uni-goettingen.de/en/54664.html](http://www.uni-goettingen.de/en/54664.html)

**Funding opportunities within the university** Yes

**Description of the above-mentioned funding opportunities within the university** Doctoral fellowships are available at approx. 1,400 to 1,600 EUR per month.

## Requirements / Registration

**Academic admission requirements** Master's degree or equivalent in physics, chemistry, life sciences, or a related discipline

**Language requirements** Applicants whose native language is not English are asked to submit proof of proficiency in English. If no English test is available, proficiency in English can be evaluated during a personal interview. Proven higher education in English or a reasonably long stay in an English speaking country may also be accepted.

**Application deadline** Application is possible independent of deadlines.

**Submit application to** Online application at <https://www.uni-goettingen.de/en/497097.html>.

## Services

**Accommodation** The Accommodation Service of the International Office supports international students who are enrolled at the University of Göttingen to find accommodation in Göttingen and serves as a point of contact for queries. The service works together with the private market in Göttingen and the Student Services ("Studentenwerk"). As the amount of accommodations in Göttingen is limited, it is highly recommended to contact the Accommodation Service as early as possible.

For further information, please see the following link: <https://www.uni-goettingen.de/en/617883.html>

Please note: For doctoral students, accommodation services are only available if you have a low income.

<b>Structured research and supervision</b>	Yes
<b>Research training / discussion</b>	Yes
<b>Career advisory service</b>	Information on the career service for doctoral students in the natural sciences can be found here: <a href="http://www.gauss.uni-goettingen.de/career">http://www.gauss.uni-goettingen.de/career</a>
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"><li>• Buddy programme</li><li>• Visa matters</li><li>• Help with finding accommodation</li><li>• Support with registration procedures</li></ul>
<b>General services and support for international students and doctoral candidates</b>	<p><a href="#">International Office</a></p> <p>German students help newly arrived students to adapt to the university and the city during their <a href="#">first weeks</a>. There is also an <a href="#">orientation week</a> for new international students, which provides valuable information about Göttingen and the university.</p> <p><a href="#">Study Buddy Programme</a> as a part of the project Integration and Diversity at Göttingen University (InDiGU)</p> <p><a href="#">Foyer International</a>: Cultural evenings and more for all students</p>

## Contact

### University of Göttingen

IMPRS Physics of Biological and Complex Systems

Antje Erdmann

Am Fassberg 11  
37077 Göttingen

Tel. +49 5512012322

✉ [imprs-pbcs@gwdg.de](mailto:imprs-pbcs@gwdg.de)

🌐 Course website: <https://www.uni-goettingen.de/de/56640.html>

📘 <https://www.facebook.com/University.of.Goettingen>

🐦 <https://twitter.com/unigoettingen>

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

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

Last update 12.12.2024 12:42:01

# 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

DAAD - Deutscher Akademischer Austauschdienst e.V.  
German Academic Exchange Service  
Section K23 – Information on Studying in Germany  
Kennedyallee 50  
D-53175 Bonn  
[www.daad.de](http://www.daad.de)

## 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".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry  
of Education  
and Research