



**TECHNISCHE  
UNIVERSITÄT  
DRESDEN**

International

**Master's  
Programs**

Master's Programs taught in English

## Contents

Studies and Campus Life	3
Dresden for Students	4
Application Prodedures and Finances	6
Master's Programs in Natural Sciences and Mathematics	10
Master's Programs in Civil and Environmental Engineering	26
Master's Programs in Engineering Sciences	36
Master's Programs in Humanities and Social Sciences	42
Contact at TU Dresden	44
Dresden Germany	46



TU Dresden is the biggest university in Saxony and one of eleven Universities of Excellence in Germany offering more than 120 degree programs. It is home to 30,000 students, including 18% international students. TUD promotes the achievements of the students, both before and during their studies, with a wide-ranging module system consisting of counseling and support programs.

To ensure that new students feel at ease right from the start, it organizes a broad range of welcome and information events. Tutors provide help and advice and so-called buddies make it easier for international students to adapt to the university's daily routine.

Together with the numerous computer labs, WIFI throughout the entire campus makes it easy to learn and work. Those seeking a quiet place with a great number of resources will find it in the Saxon State and University Library Dresden (SLUB). It is one of the largest and best-equipped academic libraries in Germany.

Food is also provided on campus. Every day, around 20,000 guests enjoy their meals in the canteens and cafeterias of the Studentenwerk Dresden (student union). These are among the best in Germany.

If you feel the need to clear your head from the daily learning routine, you can register for more than 40 different types of sport activities at the Dresden University Sports Center. You can also learn a foreign language for free or take part in one of the many cultural and social programs offered by the student university groups. Fellow students from more than 125 countries can meet and get to know each other at language tandem nights, on joint excursions, by designing and building a race car or by constructing an airplane.

For more reasons to choose TU Dresden and all relevant information at a glance, check [tu-dresden.de/why-tud](https://tu-dresden.de/why-tud)

## Studies and Campus Life

Dresden is the capital of the Federal State of Saxony and with more than half a million inhabitants among the twelve biggest cities in Germany. Apart from its turbulent history, it is also most famously known for its diverse cultural landscape.

No matter whether you are interested in theater, opera, cabaret, and cinema or if you enjoy a stroll through museums or a night out at the pub, there is something available for everyone.

You can also get 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).

For those interested in weekend excursions during their studies, not only the surroundings of Dresden have plenty to offer but also Berlin, Prague, Leipzig and Wrocław are easy to reach and only a short distance away.

## Dresden for Students



Except for Chemistry, Molecular Biosciences and Productive Bioystems and Physics, all English taught master's programs at TU Dresden start in the winter semester only, i.e. on Oct 1<sup>st</sup> each year. The application period for international applicants usually commences on April 1<sup>st</sup> of the same year. The application deadlines vary according to your educational background and your nationality, so please make sure to check online.

TU Dresden is a member of uni-assist e.V., the service organization for international university applications. We have commissioned uni-assist to accept and examine application documents from applicants who have graduated from foreign secondary schools or institutions of higher education. The application for all English taught master's programs at TU Dresden (except for master's programs at IHI Zittau, International Studies in Intellectual Property Law and Data Law, Cartography and Tropical Forestry) for applicants with a non-German first university degree is handled via uni-assist. You can find all further info at ↗ [tu-dresden.de/application](https://tu-dresden.de/application).

Please note that several of the master's programs include an aptitude review procedure to verify that the first university degree matches the scientific requirements of the master's program.

TU Dresden is a public university and does not charge any tuition fees. However, students are required to pay a semester contribution of currently 300€ for one semester (i.e. 6 months). Included is a ticket for public transport. In general, Dresden offers very high quality of living at moderate costs compared to other big German cities. For your basic costs, i.e. rent, food, clothes and personal items, you should budget about 850€ per month.

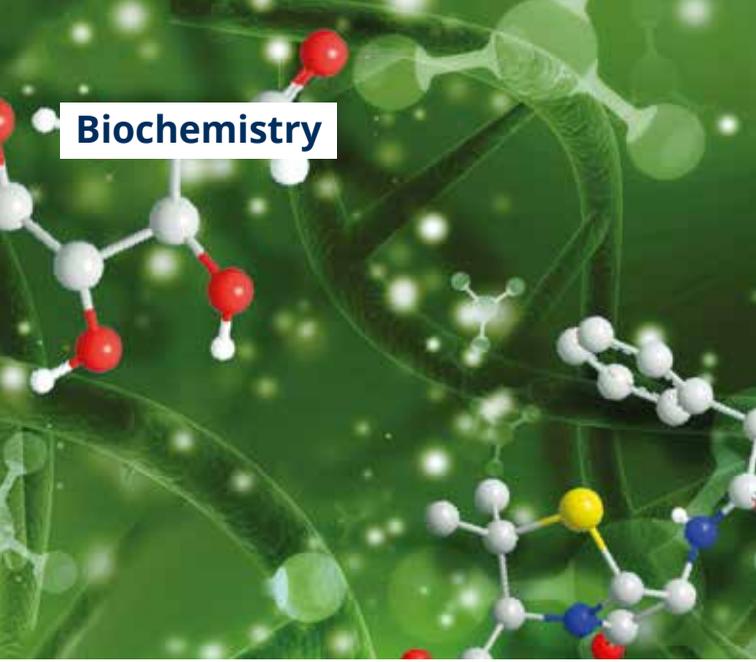
Depending on your background and the program you have chosen, there are various possibilities for financial support, including specific scholarship programs. Please check the respective master's programs website or see ↗ [funding-guide.de](https://funding-guide.de) for the DAAD database of scholarships. Please also keep in mind that there might be additional funding possibilities in your home country!

## Application Prodedures and Finances





**Natural Sciences and  
Mathematics**

A graphic for Biochemistry featuring a green background with a DNA double helix, several ball-and-stick molecular models, and glowing green particles. The word "Biochemistry" is written in a white box with a blue border.

## Biochemistry

**Biochemistry** is a two-year full-time international master's program that focuses on the molecular foundations of biological processes as well as the manipulation of biological pathways and biomolecules for technological applications.

The program is organized into two tracks – Chemistry of Biological Systems and Technical Biochemistry – which cover a wide variety of topic areas including biocatalysis, natural product chemistry, molecular cell biology, genome engineering, and bioanalytics.

To qualify, applicants must have completed their bachelor's degree or comparable in chemistry, biology, molecular biotechnology or a comparable scientific field and provide an international English proficiency test at an advanced level of B2 or better (e.g. IELTS: 6.5, TOEFL iBT: 79, UNICert II).

### Further information

- 📍 Faculty of Chemistry and Food Chemistry
- 🔗 [tu-dresden.de/sins/ma-biochm](https://tu-dresden.de/sins/ma-biochm)
- ✉ [MSBiochemistry@msx.tu-dresden.de](mailto:MSBiochemistry@msx.tu-dresden.de)

Bringing biology into society requires us to understand biological roots of societies and societal impacts on biology. In the master's program **Biology in Society** students will obtain profound knowledge of animal and plant genetics, evolution, physiology and reproduction, but also methods to communicate science effectively. For example, they will learn about doping research, lipidology, or will test their own food genetically but may also discuss how medical CRISPR-Cas9 applications impact the right of self-determination of individuals. The students run their own journal BioS Reports. An important part of the curriculum is research ethics and methods, science policy and animal testing.

To apply, please provide a university degree in biology or related subject. Non-native speakers of English will need proof of language proficiency (e.g., TOEFL 79 points, IELTS 6.5) or similar.

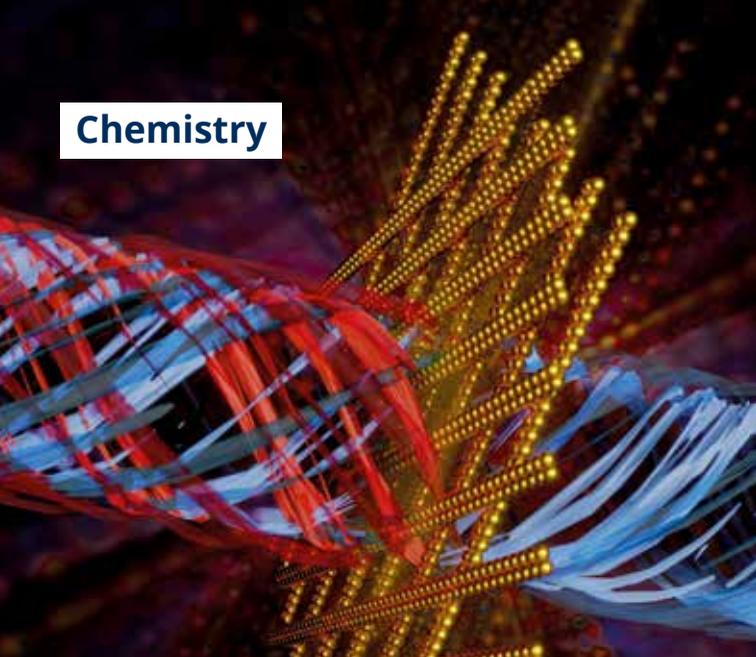
### Further information

- 📍 Faculty of Biology
- 🔗 [tu-dresden.de/sins/ma-bios](https://tu-dresden.de/sins/ma-bios)
- ✉ [bioinsoc@tu-dresden.de](mailto:bioinsoc@tu-dresden.de)

A graphic for Biology in Society showing a laboratory scene with several people in white lab coats working at a bench. The text "Biology in Society" is overlaid in a white box with a blue border.

## Biology in Society

## Chemistry



**Chemistry** is a two-year full-time international master's program covering advanced fields of materials chemistry and biologically oriented chemistry. A broad spectrum of modules include analytical chemistry, biochemistry, computational chemistry, electrochemistry, inorganic chemistry, organic chemistry, physical chemistry, polymer chemistry, radio- and radiopharmaceutical chemistry, sustainable chemistry and technical chemistry addresses important societal needs in the fields of circular economy, digitalization, energy, environment, food, health, and sustainability.

To qualify, applicants must have completed a first qualifying university degree in chemistry or a comparable specialist field and provide an international English proficiency test at an advanced level of B2 or better (e.g. IELTS: at least 6.0 in all sub-aspects, TOEFL iBT: at least 75 points overall and at least 18 points in each sub-aspect, UNICert II).

### Further information

- 📍 Faculty of Chemistry and Food Chemistry
- 🔗 [tu-dresden.de/sins/ma-chm](https://tu-dresden.de/sins/ma-chm)
- ✉ [studienfachberatung.chemie@tu-dresden.de](mailto:studienfachberatung.chemie@tu-dresden.de)

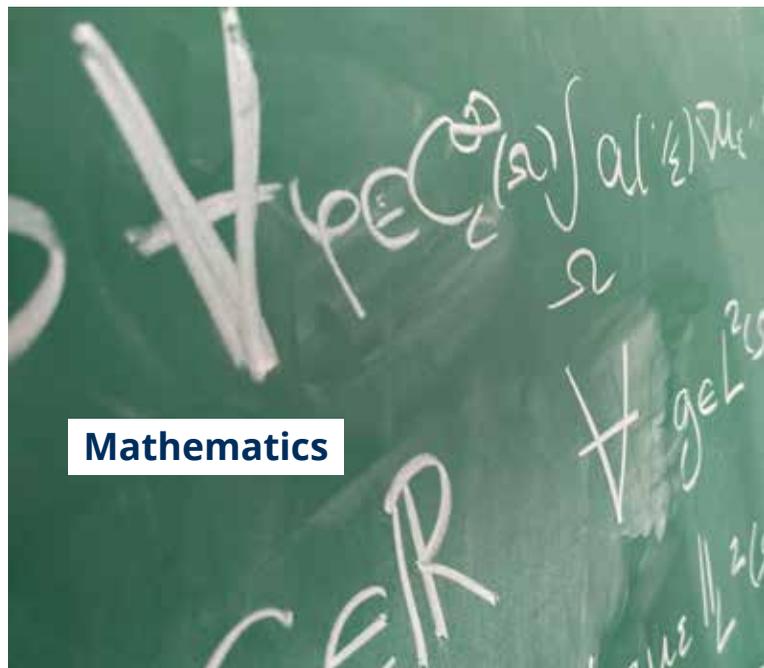
Mathematics is not only a school of thought that teaches critical thinking – a vital skill in many places in our society – it is also the language of the natural sciences and technology. As such, it is a key competence for basic and industrial research and development, as well as for a wide range of application areas.

The master's program **Mathematics** is research-oriented and provides a strong mathematical education in a creative and collaborative environment. It offers a high degree of flexibility in the choice of courses, scientific specialization, and non-mathematical minor subjects.

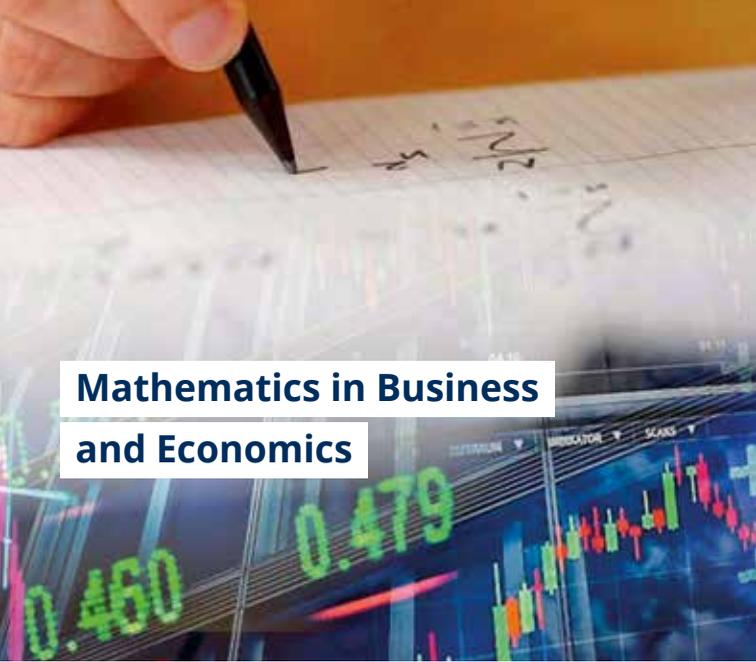
Applicants must hold a first university degree in mathematics or a closely related program of study. Proficiency in English at an advanced B2-level according to the European reference framework (eg. TOEFL 79 points or IELTS 6.5) is required.

### Further information

- 📍 Faculty of Mathematics
- 🔗 [tu-dresden.de/sins/ma-math](https://tu-dresden.de/sins/ma-math)
- ✉ [studienfachberatung-ma.math@tu-dresden.de](mailto:studienfachberatung-ma.math@tu-dresden.de)



## Mathematics



## Mathematics in Business and Economics

Mathematics is woven into the very fabric of financial markets and the financial industry as a whole. Mathematical methods are used for forecasting, modeling, simulation, for measuring and limiting risks, and for optimizing processes and production flows.

The master's program **Mathematics in Business and Economics** is application-oriented and provides strong mathematical skills with a special emphasis on mathematical areas relevant to economy and finance. It includes a minor in economics and prepares our applicants for future jobs in fields such as risk management, statistics, auditing, and management consulting.

Applicants are required to hold a first university degree in mathematics or a closely related program of study. Moreover, applicants shall prove proficiency in English at an advanced B2-level according to the European reference framework (eg. TOEFL 79 points or IELTS 6.5).

### Further information

- 📍 Faculty of Mathematics
- 🔗 [tu-dresden.de/sins/ma-bizmath](http://tu-dresden.de/sins/ma-bizmath)
- ✉ [studienfachberatung-ma.math@tu-dresden.de](mailto:studienfachberatung-ma.math@tu-dresden.de)

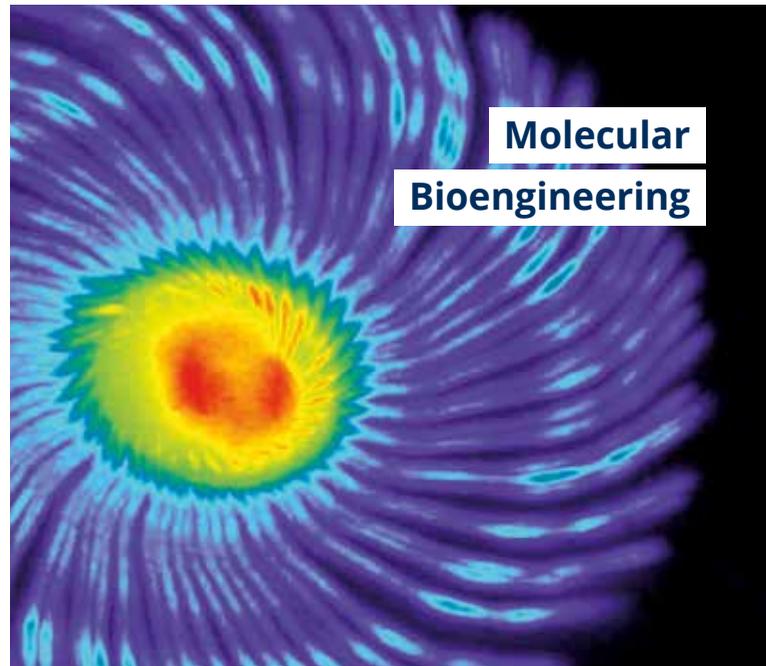
The master's program **Molecular Bioengineering** is a novel combination of biology, biochemistry, biophysics, materials science, medical science, bioinformatics and nanotechnology.

The program aims to teach students the fundamentals in biomedicine and bio nano technology combining biology and technology in two ways: through biological knowledge of cells to develop the notion of molecular factories; and through nanotechnology and bioinformatics to enable engineering of biomaterials for medical and industrial applications.

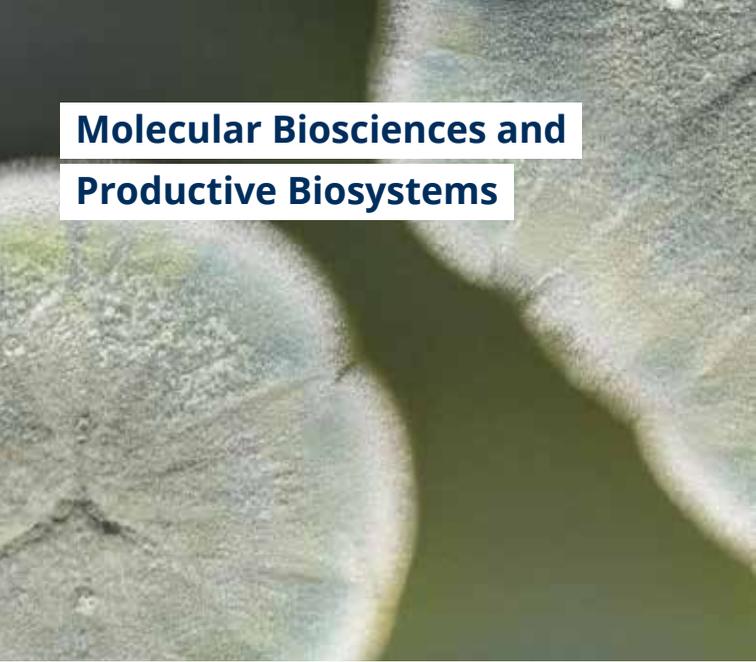
The program is targeted at students with a first university degree in biotechnology, biology, chemistry, physics, materials science, medical science, computer science or nanotechnology and a good command of English (e.g. TOEFL ibt 92 points, IELTS 6.5).

### Further information

- 📍 Center for Molecular and Cellular Bioengineering (CMCB)
- 🔗 [tu-dresden.de/sins/ma-molbio](http://tu-dresden.de/sins/ma-molbio)
- ✉ [molbio@mailbox.tu-dresden.de](mailto:molbio@mailbox.tu-dresden.de)



## Molecular Bioengineering



## Molecular Biosciences and Productive Biosystems

The master's program **Molecular Biosciences and Productive Biosystems** provides a knowledge base in molecular biology, applied microbial physiology, and product development. It rests on three scientific pillars: "Functional Tools" will provide students with theoretical and practical knowledge. "Productive Pathways" teaches the fundamentals in microbial physiology, metabolism and bioenergetics. "Application Technologies" is where tools and pathways are fused into fields such as biocatalysis, biotransformation, metabolic engineering and environmental monitoring.

Applicants must hold a first university degree in natural science (typically Biology, Biotechnology, Life Science, Biochemistry or Biophysics) with demonstrated fundamental knowledge in genetics, molecular biology and microbiology. Moreover, applicants must prove proficiency in English at an advanced B2-level according to the European reference framework (TOEFL > 79 or IELTS > 6.5).

### Further information

- 📍 Faculty of Biology
- 🔗 [tu-dresden.de/sins/ma-mbiopro](https://tu-dresden.de/sins/ma-mbiopro)
- ✉ [mbiopro@mailbox.tu-dresden.de](mailto:mbiopro@mailbox.tu-dresden.de)

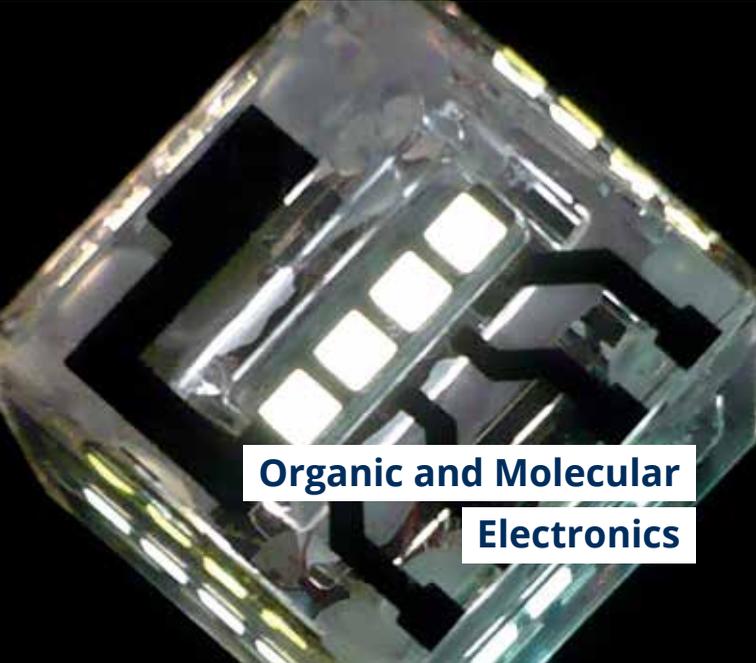
Organic electronics is an innovative class of electronics with enormous market potential in four key application areas: displays, photovoltaics, lighting, and integrated smart systems.

The master's program in **Organic and Molecular Electronics** strives to educate young professionals in this innovative type of electronics, predicted to revolutionize technology in the next years. This interdisciplinary study program comprises physics, chemistry, electrical engineering, and materials science. It combines theoretical courses with practical trainings and research projects. The close collaboration with industry partners enables a highly practice-oriented education.

We are looking for candidates with bachelor's or equivalent degrees in physics, chemistry, electrical engineering or materials science; English proficiency at C1-level (IELTS 7.0 or TOEFL 95 iBT) and a sound knowledge in physics, chemistry and mathematics.

### Further information

- 📍 Faculty of Physics
- 🔗 [tu-dresden.de/sins/ma-ome](https://tu-dresden.de/sins/ma-ome)
- ✉ [ome@tu-dresden.de](mailto:ome@tu-dresden.de)



## Organic and Molecular Electronics

## Organismic and Molecular Biodiversity



Understanding and safeguarding biodiversity is one of the key challenges of our time. However, the increased need for biodiversity research and scientific monitoring is not matched by the availability of trained personnel. For this reason, the TU Dresden and Senckenberg offer a comprehensive master's program.

The program **Organismic and Molecular Biodiversity** is organized into three specializations: Species Diversity and Natural-History Collections, Structural and Functional Biodiversity and Molecular Biodiversity. The inclusion of collection-based research as well as applied topics such as nature conservation and biotechnology allows graduates to work in a variety of fields.

Applicants must hold a degree in biology or in closely related sciences and such as forestry, agrarioecology, nature conservancy, landscape planning or geocology and a good command of English (e.g., minimum B2 according to the European reference framework; IELTS  $\geq 5.5$ ; TOEFL:  $\geq 80$  iBT) must be proven.

### Further information

- 📍 International Institute (IHI) Zittau
- 🔗 [tu-dresden.de/sins/ma-omb](http://tu-dresden.de/sins/ma-omb)
- ✉ [master-omb@mailbox.tu-dresden.de](mailto:master-omb@mailbox.tu-dresden.de)

The two-year Master of Science program in **Physics** aims to deepen insights into different areas of physics and their interrelations as well as into neighboring disciplines. The modular program includes fundamental concepts of experimental and theoretical physics as well as elective non-physics courses, which guarantees a diverse profile and prepares for interdisciplinary work.

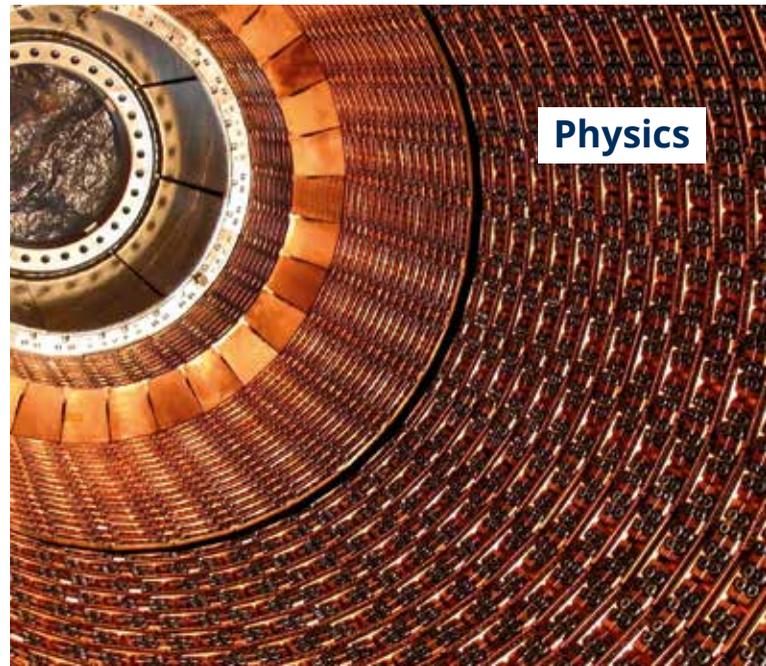
Five areas of physics specialization are offered: applied solid-state physics and photonics, solid-state and materials physics, soft condensed matter and biological physics, particle and nuclear physics as well as theoretical physics.

A highlight of the Master program is the final one-year research phase at one of the physics institutes of TU Dresden or at an external research institution.

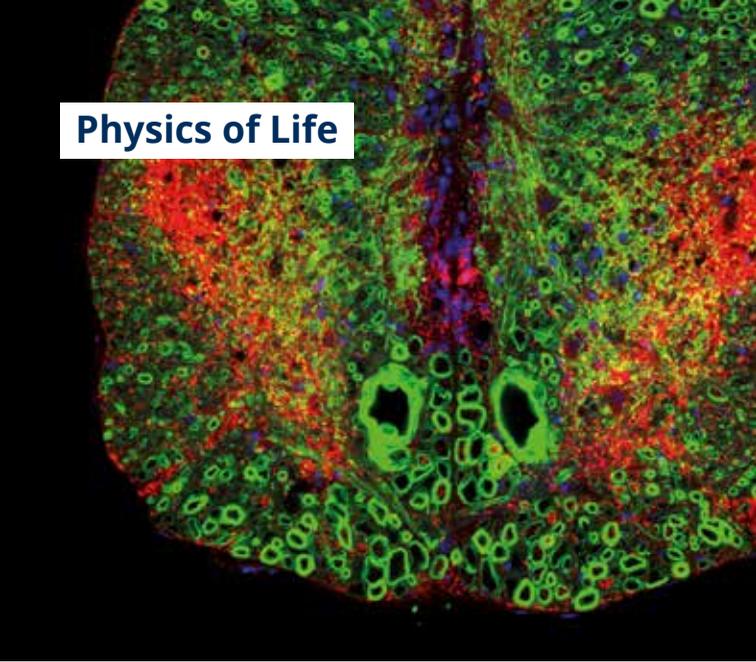
Applicants should hold a Bachelor degree in physics or in a closely related subject. Proficiency in English at the B2 level of the CEFR framework is required (e.g. IELTS 6.0, TOEFL 75, UNICert II).

### Further information

- 📍 Faculty of Physics
- 🔗 [tu-dresden.de/sins/ma-phy](http://tu-dresden.de/sins/ma-phy)
- ✉ [master-physics@tu-dresden.de](mailto:master-physics@tu-dresden.de)



## Physics



## Physics of Life

Molecules in our cells are genetically encoded nanomachines with amazing functionalities. It is essential that we describe, harness and engineer cellular machines, and understand the dynamics and activities that emerge when many such machines are put together to function in cells and tissues.

This master's program intends to teach students the **Physics of Life**. Our aim is to provide fundamentals in biophysics, biology and bio-nanotechnology in order to a) better characterize molecular machines, b) discover and understand emergent properties of molecular machines in cells and tissues, and c) harness these molecules in technological systems for bottom-up nanotechnology.

The program is targeted at students with a first university degree in natural science (typically physics or biophysics) or engineering (ideally nanotechnology) and a good command of English (e.g. TOEFL ibt 92 points, IELTS 6.5).

### Further information

- 📍 Center for Molecular and Cellular Bioengineering (CMCB)
- 🔗 [tu-dresden.de/sins/ma-pol](http://tu-dresden.de/sins/ma-pol)
- ✉ [nanobio@mailbox.tu-dresden.de](mailto:nanobio@mailbox.tu-dresden.de)

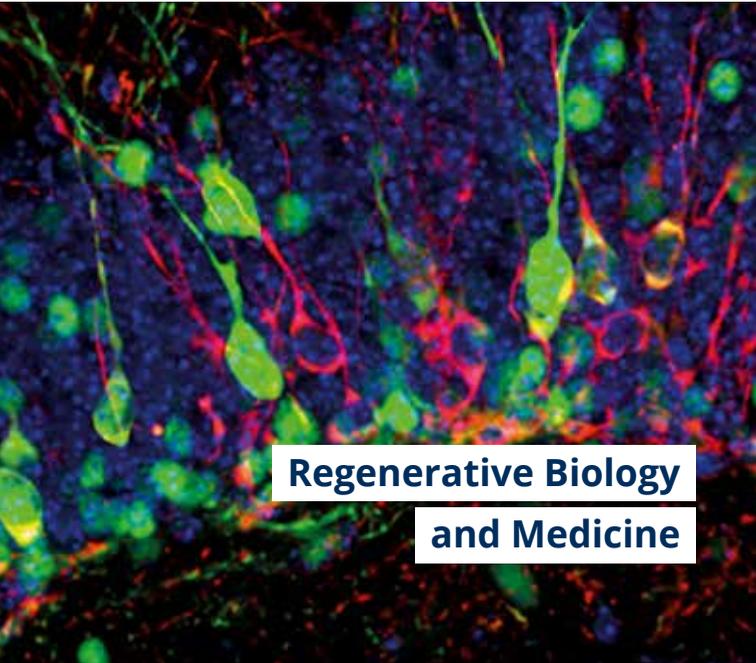
Characterized by the close network of science and clinical practice, **regenerative biology and medicine** is an extremely diverse and rapidly developing interdisciplinary field in which significant progress has recently been made.

This Master's program offers a highly interdisciplinary education in the fields of stem cell research, regenerative biology, molecular biology, tissue engineering and clinically oriented human biology and pathology. The program combines comprehensive theoretical knowledge with extensive practical experience, gained directly in the research laboratories of the cooperating institutes.

Applicants must hold a degree in biology, medicine or a related field, where a solid background in molecular and cell biology is acquired. We also expect wet lab experience as well as a strong command of the English language (non-native speakers must submit a test result - TOEFL 92 points, IELTS 6.5 points).

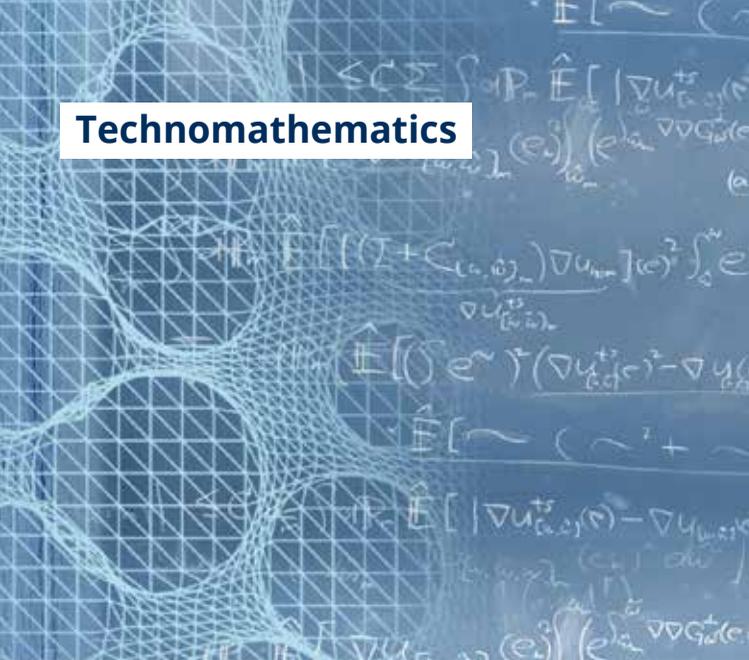
### Further information

- 📍 Center for Molecular and Cellular Bioengineering (CMCB)
- 🔗 [tu-dresden.de/sins/ma-regmed](http://tu-dresden.de/sins/ma-regmed)
- ✉ [regmed@mailbox.tu-dresden.de](mailto:regmed@mailbox.tu-dresden.de)



## Regenerative Biology and Medicine

# Technomathematics



Applied mathematics is a key competence in industrial research and development. As the language of the natural sciences, it is strongly intertwined with technological developments such as energy-efficient design, machine learning, secure communication or medical diagnostics.

The master's program **Technomathematics** is application-oriented and provides strong mathematical skills with a special emphasis on mathematical modeling, numerical simulation, and scientific flexibility. It includes a minor in engineering or natural sciences, and prepares our applicants for future jobs in research-oriented industries.

Applicants must hold a first university degree in mathematics or a closely related program of study. Proficiency in English at an advanced B2-level according to the European reference framework (eg. TOEFL 79 points or IELTS 6.5) is required.

## Further information

- 📍 Faculty of Mathematics
- 🌐 [tu-dresden.de/sins/ma-techmath](https://tu-dresden.de/sins/ma-techmath)
- ✉ [studienfachberatung-ma.math@tu-dresden.de](mailto:studienfachberatung-ma.math@tu-dresden.de)





## Civil and Environmental Engineering

## Air Transport and Logistics



The aviation industry is known for its continuous expansion and consistent development. Therefore, there is a constant demand for highly qualified aviation specialists worldwide. Students of the master's program **Air Transport and Logistics** acquire a diverse technical, operational, logistical, economic and legal knowledge of air transport and logistics systems. They learn to understand and analyse them as well as to identify related engineering problems.

Applicants must hold a first university degree from an engineering field (e.g. civil engineering, industrial engineering, traffic engineering, mechanical engineering, electrical engineering or computer science), a natural science field (e.g. physics, mathematics, geography or geodesy) or in transport economics. Good English language skills (e.g. at least B2 according to the European Framework of Reference) must be proven.

### Further information

- 📍 "Friedrich List" Faculty of Transport and Traffic Sciences
- 🔗 [tu-dresden.de/sins/ma-atl](https://tu-dresden.de/sins/ma-atl)
- ✉ [studiendekan-viw@mailbox.tu-dresden.de](mailto:studiendekan-viw@mailbox.tu-dresden.de)

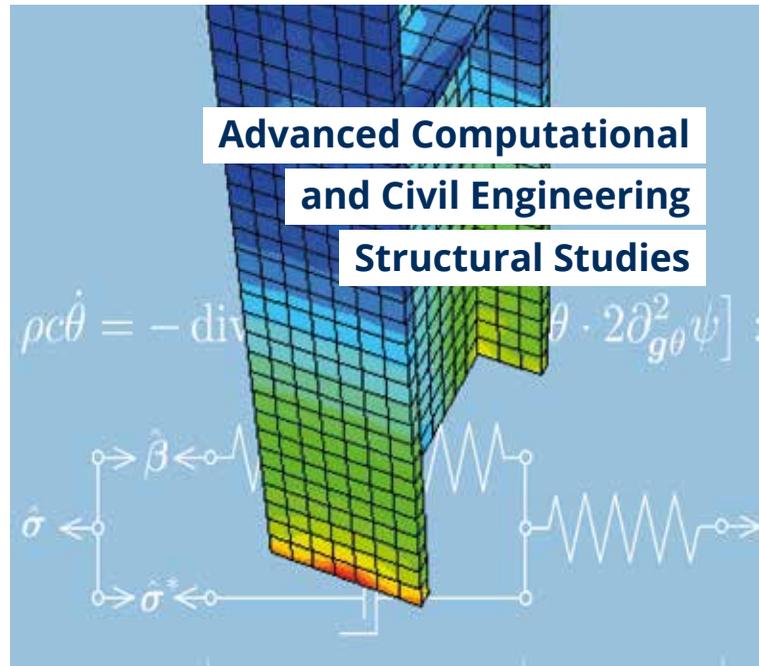
**Advanced Computational and Civil Engineering Structural Studies (ACCESS)** seeks to facilitate the development of a strong knowledge base in the fields of computational mechanics and structural analysis, working collaboratively with advanced civil engineering design. Technical innovations for challenging engineering tasks rely heavily on numerical simulation tools. Therefore, the program aims to provide the skills for understanding these approaches as well as modeling and analyzing in the broader context of application and design. The focus is on theory and application of computational mechanics, as well as research in numerical structural analysis, current developments in civil engineering design, and advanced construction methods.

Applicants should hold a degree in engineering, preferably civil engineering with extensive knowledge in mathematics and mechanics. An additional admission requirement is a good command of English (e.g. IELTS 6.0 or TOEFL 79 ibt).

### Further information

- 📍 Faculty of Civil Engineering
- 🔗 [tu-dresden.de/sins/ma-access](https://tu-dresden.de/sins/ma-access)
- ✉ [access@mailbox.tu-dresden.de](mailto:access@mailbox.tu-dresden.de)

## Advanced Computational and Civil Engineering Structural Studies





## Cartography

Europe's first and only international master programme in **Cartography** is a joint programme of four universities: Technische Universität München, Technische Universität Wien, Technische Universität Dresden and University of Twente, which focusses on a broad education in cartography and geoinformatics and is a complementary approach of the four partners' different research and educational profiles. During their studies, students stay together as a group and move from one university to the other.

We are looking for candidates with an above-average bachelor's degree or equivalent in a discipline related to cartography, geo-information, geography, geodesy, geology or computer science. Non-native speakers of English will be required to submit an English language text (IELTS: min. 6.5, TOEFL iBT: min. 88, CbT: min. 234, PbT: min. 605, Cambridge Certificates Cambridge Main Suite: CAE or CPE: level A, B or C, Pearson English Language Test PTE Academic: min. 65 points).

### Further information

- 📍 Technical University of Munich
- 🔗 [cartographymaster.eu](http://cartographymaster.eu)
- ✉ [info@cartographymaster.eu](mailto:info@cartographymaster.eu)

In the context of the global loss of biodiversity and ecosystem degradation, **Ecosystem Services** as the direct and indirect contributions of ecosystems for human well-being are gaining increased attention in science, policy and society. The international master's program provides students with the knowledge base and methods to analyze pressing environmental problems and to develop societally relevant solutions.

A special focus lies on inter- and transdisciplinary approaches from the natural and the social sciences in order to conserve and sustainably use biodiversity and to secure the sustainable provision of ecosystem services for present and future generations.

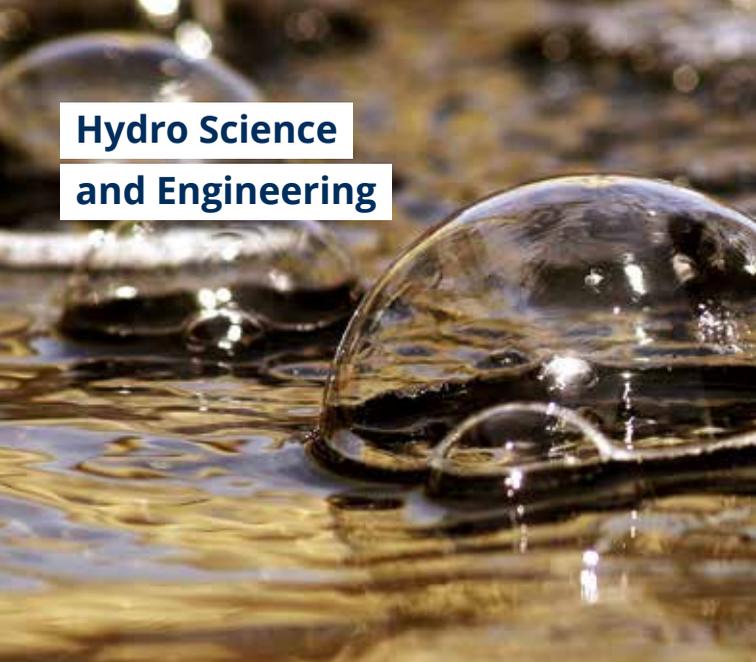
Applicants must hold a degree in life or environmental sciences, economics, social sciences, geography, agricultural or forestry sciences or related fields and have a good command of English (e.g., minimum B2 according to the European reference framework; IELTS  $\geq$  5.5; TOEFL:  $\geq$  80 iBT).

### Further information

- 📍 International Institute (IHI) Zittau
- 🔗 [tu-dresden.de/sins/ma-ess](http://tu-dresden.de/sins/ma-ess)
- ✉ [master-ess@mailbox.tu-dresden.de](mailto:master-ess@mailbox.tu-dresden.de)



## Ecosystem Services



## Hydro Science and Engineering

The master's program **Hydro Science and Engineering** focuses on water management for various applications from urban to rural in different climatic zones. It combines natural and engineering sciences for an in - depth understanding of the numerous water related challenges in an increasingly extreme world. This program meets the international standards necessary to pursue and develop a career with national and international authorities and organizations, engineering and consulting enterprises, as well as in research. Applicants must hold a bachelor's degree in environmental sciences, natural sciences, or in an engineering discipline, minimum duration of three years. For details on possible scholarships, visit our website.

All applicants must prove proficiency in English (IELTS: 6.5, all parts minimum 6, TOEFL: 94 points; or equivalent tests showing C1-level according to the European reference framework).

### Further information

- 📍 Faculty of Environmental Sciences  
Department of Hydrosciences
- 🔗 [tu-dresden.de/sins/ma-hse](https://tu-dresden.de/sins/ma-hse)
- ✉ [contact.hse@mailbox.tu-dresden.de](mailto:contact.hse@mailbox.tu-dresden.de)

Today's most pressing economic challenges, like climate change, financial crises, disruptions in commodity markets, and income disparities, are transnational. Tackling these issues calls for a sound understanding of national and cross-national policymaking and their nexus, with questions of international policy coordination at its core.

The Master in **Public and International Economics** addresses precisely these issues. Imparting up-to-date methodological and scientific knowledge, it provides the expertise to develop solutions to economic policy problems in a globalized world.

Applicants must hold a first university degree in economics with sound knowledge of economic theory and quantitative methods. Moreover, they must prove proficiency in English at the B2 level according to the European reference framework.

### Further information

- 📍 Faculty of Business and Economics
- 🔗 [tu-dresden.de/sins/ma-pie](https://tu-dresden.de/sins/ma-pie)
- ✉ [master.pie@tu-dresden.de](mailto:master.pie@tu-dresden.de)



## Public and International Economics



## Transportation

## Economics

The design of mobility, transport and logistics systems is one of the main societal challenges. Our master's program in **Transportation Economics** provides students with scientific methods and tools for understanding, processing and solving imminent transport-related issues. We offer five specializations within the program: Computational Logistics, Spatial and Environmental Economics, Transport Policy, Statistics, Data Analytics in Transport.

Applicants must hold a first university degree in the field of transport and traffic science, economics or STEM subjects (mathematics, information technology, natural sciences, and technology). Good knowledge in economics, business administration and quantitative methods, as well as a good English skills (e.g., minimum B2 according to the European Framework of Reference; IELTS  $\geq 5.5$ ; TOEFL:  $\geq 80$  iBT) must be proven.

### Further information

- 📍 "Friedrich List" Faculty of Transport and Traffic Sciences
- 🔗 [tu-dresden.de/sins/ma-tec](https://tu-dresden.de/sins/ma-tec)
- ✉ [studiendekan-wvi@mailbox.tu-dresden.de](mailto:studiendekan-wvi@mailbox.tu-dresden.de)

Drawing on a century-long expertise in forest sciences, the MSc **Tropical forestry** program puts an emphasis on the ecological, technical as well as social science dimensions in forestry. Special attention is given to the socio-economic as well as socio-political aspects during the education. The course provides an excellent opportunity to study in an international, intercultural, and dynamic environment that offers integrated specialization in tropical ecology, forest and development policy and resource management.

Through this program, you will learn from and work alongside a competent academic and research team, who will supervise your field research in international tropical or sub-tropical contexts. Applicants must have a university degree in forestry or a related field (e.g. agriculture, horticulture, landscape and regional planning, geography, water management, biology) and knowledge of English (e.g. TOEFL 550 pbT/ 213 cbt or IELTS 6.0).

### Further information

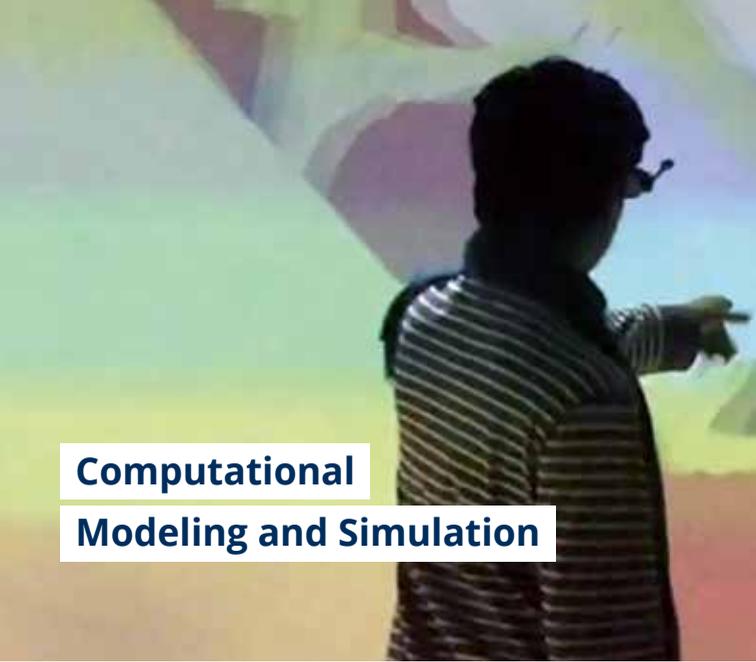
- 📍 Faculty of Environmental Sciences  
Department of Forest Sciences
- 🔗 [tu-dresden.de/sins/ma-tropen](https://tu-dresden.de/sins/ma-tropen)
- ✉ [tropen@mailbox.tu-dresden.de](mailto:tropen@mailbox.tu-dresden.de)



## Tropical Forestry



**Engineering  
Sciences**



## Computational Modeling and Simulation

The research-oriented interdisciplinary master's program **Computational Modeling and Simulation** offers application-independent training in the foundations of computational modelling (i.e. learning models from data) and simulation (i.e. numerical simulation of models). Specialization is provided in application-specific tracks, offering unique flexibility to students. The program also offers the possibility to fast-track into a structured PhD program, benefitting from the participation of local partners in the relevant fields.

Candidates must hold a first university degree qualifying for professional activity in computer science, mathematics, natural sciences, economics or engineering, special knowledge of computer programming as well as mathematical and scientific basics and prove knowledge of English corresponding to at least level B2 of the European Frame of Reference for Language (e.g. TOEFL 550PBT/213CBT/80IBT or IELTS 6.0).

### Further information

- 📍 Faculty of Computer Science
- 🔗 [tu-dresden.de/sins/ma-cms](https://tu-dresden.de/sins/ma-cms)
- ✉ [cms-admin@mailbox.tu-dresden.de](mailto:cms-admin@mailbox.tu-dresden.de)

The master's program in **Distributed Systems Engineering** is focused on advanced topics related to the engineering of distributed software systems. The topics encompass the specification, design, analysis, development and operation of distributed systems. Special emphasis is placed on designing and developing dependable and secure software for networked and distributed systems.

The program's structure ensures that students first acquire the necessary theoretical knowledge and expertise before they will get the opportunity to apply their skills in practice.

To qualify, applicants must have an undergraduate degree in computer science or comparable with strong emphasis on and „good“ to „very good“ achievements in specific fundamental areas. Furthermore, English proficiency on CEFR level C1 or better, or comparable must be established (e.g. at least IELTS 7.0 or equivalent).

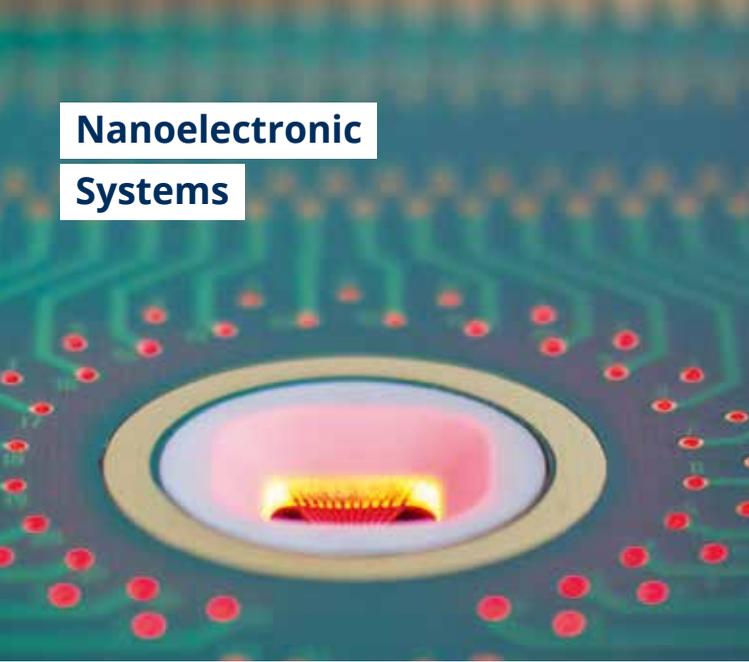
### Further information

- 📍 Faculty of Computer Science
- 🔗 [tu-dresden.de/sins/ma-dse](https://tu-dresden.de/sins/ma-dse)
- ✉ [dse-info@mailbox.tu-dresden.de](mailto:dse-info@mailbox.tu-dresden.de)



## Distributed Systems Engineering

# Nanoelectronic Systems



**Nanoelectronic Systems** offer a variety of applications, but their design and implementation is becoming increasingly complex. This is the motivation for the master's program Nanoelectronic Systems, which focuses on three key areas: technologies for nanoelectronic systems, design of nanoelectronic systems, and applications of nanoelectronic systems. Furthermore traditional scaling („More Moore“) will be covered, as well as ideas and concepts for „More than Moore“ and „Beyond Moore“.

Applicants must hold a bachelor's degree in electrical engineering, information technology, physics, or similar with several prerequisites (advanced mathematics, analogue and digital circuit design, electro-magnetic fields, systems theory, operation and construction of basic electron devices, object-oriented programming) and prove knowledge of English corresponding to at least level B2 of the European Frame of Reference for Language (e.g. TOEFL IBT 95 or IELTS 6.5).

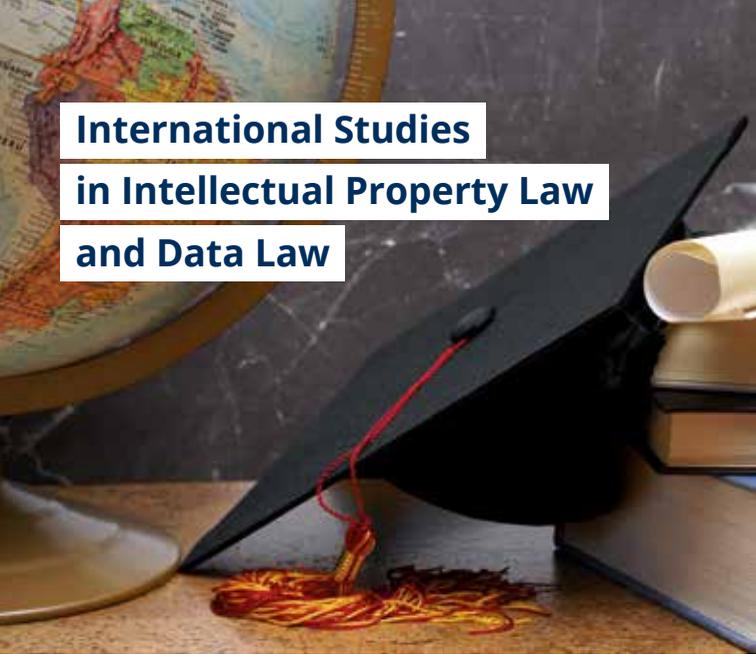
## Further information

- 📍 Faculty of Electrical and Computer Engineering
- 🔗 [tu-dresden.de/sins/ma-nes](http://tu-dresden.de/sins/ma-nes)
- ✉ [master-nes@mailbox.tu-dresden.de](mailto:master-nes@mailbox.tu-dresden.de)





**Humanities and  
Social Sciences**



## International Studies in Intellectual Property Law and Data Law

The LL.M. program **Intellectual Property Law and Data Law** is a one year postgraduate course offering students specialized knowledge on Intellectual Property Law, in particular Copyright, Data Protection, Trade Mark and Patent Law. Our focus is on legal questions associated with new technologies, multimedia and the internet. The program is unique in offering participants a practice-oriented specialization in the field of Intellectual Property Law.

Applicants must hold a Bachelor's or higher degree in law, computer science, engineering, media studies, or another subject. Graduates of a non-juridical university course may be admitted if they can prove that they have sufficient legal knowledge (at least 5 ECTS). Furthermore, professional experience of about one year and a good command of English (e.g. TOEFL IBT 90 or IELTS 6.5) must be proven.

### Further information

- 📍 Faculty of Arts, Humanities and Social
- 🔗 [tu-dresden.de/sins/ma-ipllm](http://tu-dresden.de/sins/ma-ipllm)
- ✉ [ip-llm@tu-dresden.de](mailto:ip-llm@tu-dresden.de)



## Contact at TU Dresden



### ServiceCenterStudies (SCS)

You can contact the ServiceCenterStudies via the service hotline or in person at the servicepoint.

The SCS-servicepoint is located in the Fritz-Foerster-Bau (FOE), Mommsenstr. 6, 01069 Dresden.

#### Opening hours

Monday, Wednesday	8:30 am - 4:00 pm
Tuesday, Thursday	8:30 am - 6:00 pm
Friday	8:30 am - 1:00 pm

The SCS-service hotline is available via email and phone.

#### Opening hours

Monday, Wednesday	9:00 am - 3:00 pm
Tuesday, Thursday	9:00 am - 6:00 pm
Friday	9:00 am - 1:00 pm

- ☎ +49 351 463-42000
- ✉ [scs@tu-dresden.de](mailto:scs@tu-dresden.de)
- [tu-dresden.de/scs](https://tu-dresden.de/scs)

### International Office

Service Desk for international students

Students first need to consult the ServiceCenterStudies (SCS) and will then be referred to the Service Desk of the International Office

#### Visitors address

Mommsenstr. 6, 01069 Dresden

#### Opening hours of the International Office

Tuesday	1:30 pm - 3:30 pm
Thursday	1:30 pm - 3:30 pm

- ☎ 0049 351 463-42000  
(contact via ServiceCenterStudies)
- ✉ [studium.international@tu-dresden.de](mailto:studium.international@tu-dresden.de)
- [tu-dresden.de/international](https://tu-dresden.de/international)



**Dresden**  
**Germany**

## Credits & Copyright

Publisher: Technische Universität Dresden

Editors: Student Marketing

Photos: Amac Garbe Cover; p. 43; Crispin-Iven Mokry p. 2, pp. 4/5, pp. 6/7, p. 23, p. 39, pp. 46/47; Panthermedia/Wavebreakmedia pp 8/9; Tobias A. M. Gulder p. 10; Oliver Zierau p. 11; Martin Mayer/AG Fery p. 12; Stefan Neukamm pp. 13, 14, 22; Stefan Diez, Veikko Geyer p. 15; Institute of Microbiology p. 16; Carsten Wolf p. 17; Senckenberg Museum of Natural History Görlitz p. 18; CERN p. 19; Jochen Guck, Stephanie Möllmert p. 20; Gabriel Berdugoi p. 21; Michael Kretzschmar p. 23; Panthermedia/lisafx pp 24/25; Pixabay/Tobias Rehbein p. 26; Institute of Structural Analysis p. 27; Lutz Liebert p. 28; Irene Ring p. 29; pixabay/werner22brigitte p. 30; Shutterstock/tomertu p. 31; Pixabay p. 32; Tran Van Hiep p. 33; Panthermedia/nd3000 pp 34/35; Ulrik Günther p. 36; pixabay p. 37; Maik Simon p. 38; Panthermedia/YuriArcurs pp 40/41; Panthermedia/AlphaBay p 42; Karl J. Donath pp. 44/45; Panthermedia/scanrail U3

Effective: March 2023; All information is subject to change.



## Stay up-to-date and connected.



TUDresden



TUDresden



tudresden\_dew



TUDresdenTV



detailed information  
[tu-dresden.de/masters-in-english](https://tu-dresden.de/masters-in-english)