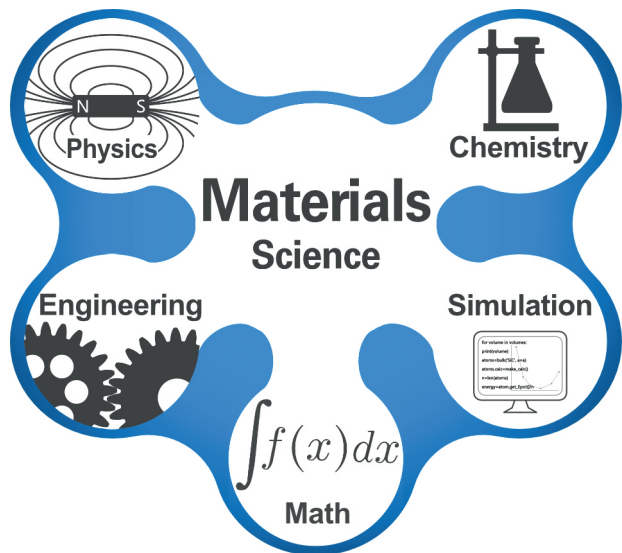


Unleash Your Scientific Potential

Materials Science is a markedly interdisciplinary field which evolved through the course of the 20th century from knowledge gained in **physics**, **chemistry**, **mathematics** and increasingly in **biology**. The development of new materials ensues in close contact with **engineering** sciences.




Application and Admission

For the application you need the following documents:

- Bachelor's degree (certified copy) with a strong connection to natural science.
- Certificate with the cumulative grade of your degree.
- Transcript of records, indicating all courses with the grade and the number of credit points and/or the number of hours.
- Certification of C1 English fluency.
- **Short letter** with further information.



Find more details and information here 

Contact

Academic Advisor:
Dr. Ralf Schacherl
Institute for Materials
Science
Heisenbergstraße 3
70569 Stuttgart



Tel.: 0711/685-61941

Email:
ralf.schacherl@imw.uni-stuttgart.de

First-hand experience?

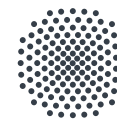
Ask our student representatives
or have a look at our website:



Email: fachschaft@imw.uni-stuttgart.de



"The decision to study materials science in Stuttgart was obvious because of our interest in natural sciences. We like Stuttgart's focus on chemistry and natural science in general, in contrast to many other materials science programmes in Germany, which are more engineering-oriented. Furthermore, the broad range of specialization options in the master's programme in Stuttgart was a decisive criterion. The study programme in Stuttgart is quite small. This enables a very good connection with the lecturers, who can thus respond to each student individually."



University of Stuttgart
Germany

Master of Science Materials Science

4 semesters

natural-science oriented
interdisciplinary
future shaping

Embedded in an excellent research
and industrial environment

2 Max-Planck
Institutes

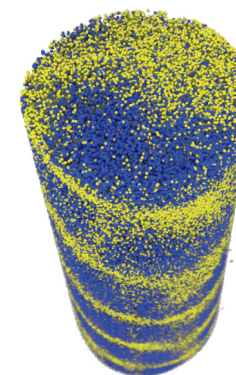
Fraunhofer Institute

Cluster of Excellence
SimTech

German Aerospace
Center

Various high-tech
companies

Study at the **cutting
edge** of science!



Experiment



Nanolayers of palladium
and platinum atoms


Simulation

To shape the
future, we need
more than ever the
interplay of highly
accurate simulations
and experiments!

For more
information

Module Scheme of M.Sc. Materials Science

CP = credit points, 30 CP per semester, 120 CP in total to complete the Master

Semester	Module 1	Module 2	General Studies	Specialization Subjects 30 CP
1 st	Synthesis and Properties of inorganic Materials 6 CP	Advanced Materials Science Laboratory 9 CP	General Studies 9 CP	<ul style="list-style-type: none"> Materials Theory and Simulation Soft Matter and Biomaterials Functional Materials Advanced Materials Characterization Polymer Science & Plastic Engineering Metals and Structural Materials Inorganic Materials Chemistry Nanomaterials and Nanostructures
2 nd	Atomic Transport and Phase Transformations 6 CP	Polymer Materials Science 9 CP		
3 rd	Advanced Science Seminar 6 CP	Practical Skills and Project Planning (related to the topic of the Master Thesis) 15 CP		
4 th	Master Thesis 30 CP		Module Scheme with Hyperlinks: 	



What makes Materials Science in Stuttgart so special?

Aside from the compulsory modules, **YOU** can define your own personalized specialization direction from 8 specialization subjects as summarized below. Out of the 8 options you can choose **up to three specialization subjects!** Each specialization has several modules which you can select from, the complete list is in the QR code below. The specialization profiles and, in general, **our overall study concept are natural-science oriented.**

Materials Theory and Simulation

Ab initio methods
Density-functional-theory
Multiscale modelling



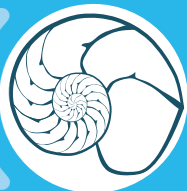
Polymer Science and Plastics Engineering

Smart polymers
Polymer electronics
Fiber-reinforced plastics
Recycling



Soft Matter and Biomaterials

Biomineralization
Self-assembly
Liquid crystals
Micro-robots



Interested in any of these specializations?

Check out our list of modules here:



Interested in studying abroad? Make a Double Master Degree:

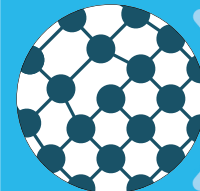
Materials Science at University Stuttgart



Materials Engineering at Chalmers University

Metals & Structural Materials

Superalloys
Intermetallics
Failure analysis
High-temperature materials



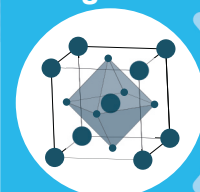
Functional Materials

Energy storage post-Lithium
Metal-organic frameworks
Superconductors



Inorganic Materials Chemistry

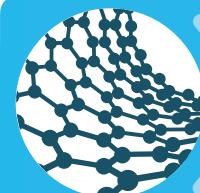
Advanced synthesis
Coordination chemistry
Functionalization of metal complexes



High resolution Analytical microscopy
Atom probe tomography



Advanced Materials Characterization



Nanomaterials and Nanostructures

From Master to Mastery: Crafting Your Future!

Our graduates are in high demand! like M.Sc. Janina Trück or Dr. Marc Nikolussi



M.Sc. Janina Trück
Ph.D student
Mercedes-Benz AG in battery research



Dr. Marc Nikolussi
Head of Engineering
Robert Bosch GmbH