



Vietnamese-German University



Materials Science: Scholarships

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MATERIALS SCIENCE

SUR PLACE SCHOLARSHIP

Gefördert durch:



Auswärtiges Amt



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

This scholarship supports talented Materials Science students directly at Vietnamese-German University. It is designed for students who want to strengthen their academic profile, deepen their scientific skills and become part of an international German-Vietnamese academic environment within their study program at VGU.

YOUR OPPORTUNITY AT VIETNAMESE-GERMAN UNIVERSITY

KEY FACTS

TYPE:

On-site scholarship at VGU

TARGET GROUP:

Motivated students with strong academic potential

DURATION:

12 months

FOCUS:

Academic progress, research orientation and international exchange

SELECTION:

Quality-based and transparent selection

WHY SHOULD YOU APPLY?

FOCUS ON YOUR STUDIES

- Receive support that helps you to concentrate on your Materials Science education and academic development at VGU

DEVELOP AS A RESEARCHER

- Engage with scientific questions, research methods and material-related challenges in a structured academic setting.

BUILD AN INTERNATIONAL PROFILE

- Benefit from the German-Vietnamese University network and strengthen your perspective for future study, research or career parts.

WHO ARE WE LOOKING FOR?

IDEAL CANDIDATE PROFILE

- Curious, reliable and committed students who are enthusiastic about Materials Science, open to academic exchange and willing to take an active role in their learning and research environment.

ELIGIBILITY REQUIREMENTS

- Enrolled in Materials Science study program at VGU
- Good to excellent academic performance
- Strong interest in scientific research
- Good to excellent English language skills
- Social or cultural engagement is a plus

DOCUMENTS FOR APPLICATION

- Transcript of records (Master Program Materials Science)
- Language Certificate
- CV

- Motivational letter (Who are you, what are your interests?)

DEADLINE: 15/01/2027



This scholarship is aimed at highly motivated students with a strong interest in scientific research and a particular focus on materials science. Ideal candidates are those who are curious, committed, and enthusiastic to actively engage in research related activities.

Applicants should be open to international collaboration and enthusiastic about becoming part of a diverse academic community.

COMPUTATIONAL
MECHANICS

The field of **computational mechanics** deals with the investigation and development of numerical, computer-oriented methods as well as the associated algorithms and calculation software for solving engineering problems whose physical behavior can be described by adequate mathematical models.

- Material modelling with physical-based neuronal networks
- Finite element technologies
- Modelling elastomers in multibody simulations

CERAMICS

The **Chair of Ceramics** deals with innovative processing, characterization and testing of novel functional and multifunctional materials, especially non-metal materials. With that, fundamental approaches of the material development are focused.

- Cellular and porous ceramics, manufacturing and modification of cellular ceramics
- Processing of ceramics from preceramic polymers by heat treatment
- Ceramic coatings for oxidation protection, coating techniques, characterization

METALLIC MATERIALS

The research focus at the Chair of Metallic Materials is relatively broad. One main area is metallurgy and heat treatment, which includes the development of new heat treatment concepts, the investigation of underlying mechanisms, and the optimization of heat treatment processes. Material modelling also plays an important role at the chair. Specifically, this involves predicting the structure, stability, and properties of materials across different time and length scales.

- Sustainable aluminium alloys, phase formation
- Casting and solidification, solidification condition, melt conditioning
- Biomechanics, medical engineering
- Material simulation (physical), material modelling

HIGH-TEMPERATURE
MATERIALS

The fields of research within the Chair of High Temperature Materials are the development of refractory-metal based alloys for high-performance or aerospace applications. The material design and the understanding of the structure-property relationship plays an important role.

- Oxidation-resistant alloys
- Refractory metal-based alloys for aerospace applications
- Microstructure-property relationship of high-performance materials
- High-performance for high-temperature alloys

DURATION & TIMELINE

The duration of the scholarship is generally 12 months. In cases where preparatory measures such as language courses are required, the scholarship period may be extended accordingly. The maximum scholarship period corresponds to the standard duration of the study program. The specific time to call for the scholarship application will be announced in November followed by the application close and applicant interview within December.

ELIGIBILITY REQUIREMENTS

- Currently enrolled in the Materials Science program
- Strong interest in scientific research, particularly in the field of materials science
- Good to excellent academic performance in their studies
- Good to excellent foreign language skills, especially in English
- Optional: social or cultural engagement will be considered a plus

DOCUMENTS FOR APPLICATION

- Transcript of records (Master Program Materials Science)
- Language Certificate
- Motivational letter (Who are you, what are your interests?)
- CV

DEADLINE: 15/11/2026