



“The well being of the world largely depends upon the work of the engineer. There is a great future and unlimited scope for the profession; new works of all kinds are and will be required in every country, and for a young man [or woman] of imagination and keenness I cannot conceive a more attractive profession. Imagination is necessary as well as scientific knowledge.”

Sir William Halcrow, Engineer



GERMAN - MONGOLIAN INSTITUTE FOR RESOURCES AND TECHNOLOGY

GMIT Campus, 2nd khoroo, Nalaikh district, Ulaanbaatar
 Phone: +976 7023 2086
 admission@gmit.edu.mn
 www.gmit.edu.mn

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МГТИС-ийн хөгжил болон Германы хамтрагч их дээд сургуулиудын хамтын ажиллагаа зэргийг хоёр улсын Засгийн газар дэмжин ажилладаг. Монгол Улсаас БШУЯ болон Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) болон Германы эрдмийн солилцооны алба (DAAD)-наас хариуцан, хэрэгжүүлэгч байгууллагаар ажиллаж байна.

To apply, visit our registration page for step-by-step application instructions:
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 ШИНЖЛЭХ УХААНЫ
 ЯАМ**



**германы
 хамтын ажиллагаа
 DEUTSCHE ZUSAMMENARBEIT**



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DAAD Deutscher Akademischer Austauschdienst
 German Academic Exchange Service

Энэхүү бүтээгдэхүүнийг байгальд ээлтэй, эко-френдли дээрх гелиус дөрвөлжөөг ашигласан байна.



JOIN THE NEXT GENERATION OF MONGOLIAN ENGINEERS



GERMAN - MONGOLIAN INSTITUTE FOR RESOURCES AND TECHNOLOGY

Master of Science (M.Sc.) in Resources and Technology

The governments of Germany and Mongolia co-founded the German-Mongolian Institute for Resources and Technology (GMIT) as a pioneering state university in 2013. GMIT offers internationally accredited study programs in English language. We follow European academic standards and provide an outstanding practical engineering and technology education. Our internationally trained GMIT professors and teaching staff have global experience in industry and research.

The Master of Science (M.Sc.) in Resources and Technology is designed to build on students' existing engineering and natural sciences knowledge, and prepares them to complete independent and application-oriented research work. Students will expand their professional skills, and will gain deep insights into cutting edge research methodologies. This postgraduate program is co-designed with GMIT's German Partner universities and is tailored to the specific needs of the industry in Mongolia and beyond.

Since its very beginning, GMIT has been partnering with leading international companies to provide practical learning and authentic workplace experiences. Therefore, M.Sc. students take the industry-linked „Advanced Research Project“ and their research-oriented Master's Thesis, in close cooperation with the industry, often with their own employers.

The M.Sc. in Resources and Technology perfectly addresses industry demand by providing this career-oriented, practical study program with a strong theoretical underpinning. The program consists of five core modules (with a focus on research methods for engineers and scientists), a wide range of electives (including interdisciplinary modules), the Advanced Research Project, and the Master's Thesis. This creates a considerable choice of specializations, and addresses the needs and interests of students with a background in both, engineering and natural sciences.

What's in it for you?

- Study and research experience at a state university with internationally accredited programs;
- Skills and knowledge in future-oriented fields of engineering and natural sciences;
- Theoretical and practical research guidance from international experts;
- Robust research environment with excellent laboratories and first-class facilities such as modern lecture rooms, well-equipped library with international textbooks, and state-of-the-art computer labs with world-class professional software solutions, e.g. Aspen Plus, MATLAB, LIMN The Flowsheet Processor, Maptek Vulcan 12 and COMSOL Multiphysics;
- Improved English language knowledge, including Technical English;
- Innovative modules to develop specialized technical knowledge, and interdisciplinary approaches;
- Valuable and recognized Master of Science (M.Sc.) degree with strong focus on applied research;
- Networking contacts and professional career opportunities at international and Mongolian companies;
- Significant improvement of income, and global corporate careers;
- Preparation for continuing in an academic career, e.g. PhD.

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And why should you get your Master of Science (M.Sc.) at GMIT?

Uniqueness: matching industry demands in Mongolia and beyond with an interdisciplinary, research-oriented M.Sc.;

Prestige: obtaining one of the world's most sought-after academic degrees from a transnational university;

Key areas: studying research methodologies for a broad understanding of various fields;

Cross-over: bridging engineering and natural sciences with research and innovation;

Entrepreneurial thinking: discovering creative approaches and solutions to address real-world engineering issues;

Advanced Research: conducting the in-depth industry-linked Advanced Research Project and Master's Thesis under professional supervision;

Study abroad at home: getting inspired by international curriculum and faculty at GMIT;

Employability: using GMIT's strong links with companies in both engineering (mining, process, manufacturing, environmental, etc.) and science spheres;

Leadership: achieving top-positions at Mongolian corporations;

Future-oriented: being ready for upcoming industries and trends;

English: speaking the global language of engineering and science;

Success: obtaining an M.Sc. degree from GMIT is a reflection of success – this will enhance your resume.

The Master of Science in Resources and Technology prepares you to be successful in engineering and applied research. You will be able to develop and integrate ideas and practices to tackle the engineering challenges of the 21st century. This study program is divided into three equally important parts: (1) core modules, (2) electives (allowing a wide range of specializations), and (3) practical research. The study program has been carefully designed and is constantly reviewed in order to acquaint you with the most relevant concepts and methodologies required in today's fast-moving work environment. The Advanced Research Project is a central and unique element: it prepares you to develop a high level of personal autonomy and accountability, and consolidates the knowledge and skills you acquired in the theoretical modules. In this way, it also serves as an excellent preparation for your Master's Thesis.

Throughout this degree program, you can expect varied teaching and learning experiences that include laboratory work, discussions of real-world scenarios, self-driven projects, interactions with leading industry corporations, and lectures by Mongolian, German and international professors. Overall, the Master of Science (M.Sc.) in Resources and Technology facilitates research, critical evaluation, and the application of knowledge and skills with creativity and initiative.

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Career opportunities

The skills and knowledge attained in this postgraduate degree program ideally prepare graduates for employment as engineers or scientists in research and development. Typical working fields include mining, process engineering, manufacturing, mechanical systems design, electrical power generation, renewable energy systems, environmental engineering, project management, industrial engineering and more. According to surveys by the Mongolian Ministry of Labor, only 33% of all Mongolian graduates currently work in their field of expertise. The M.Sc. degree in Resources and Technology provides Bachelor degree holders a unique opportunity to widen and enhance their career prospects.

Additionally, highly successful graduates of this study program are entitled to progress towards PhD studies in engineering, science or related fields at GMIT and other international universities.

Tuition fees

For an international, first-class education our tuition fees are competitive: MNT 133.000 per credit point (CP).

Entry requirements

- Recognized bachelor degree in engineering or natural science with at least 180 ECTS-CP, or equivalent. Bachelor degree holders of the following study programs are welcome: Mechanical Engineering, Mechatronical Engineering, Civil Engineering, Raw Materials Engineering, Process Engineering, Chemical Engineering, Energy and Electrical Engineering, Environmental Engineering, Industrial Engineering, Physics, Chemistry, Geosciences, and Information Technology;
- English language proficiency: ILETS 6.0, TOEFL 60-78, or GMIT English placement test. Please note: Candidates who don't fulfill C1 competence level in English language have to participate in an intensive preparatory language course;
- Successful completion of selection interviews.

If you are not sure if you meet the ECTS-CP requirements, please get in touch with GMIT Admission Committee for clarification: admission@gmit.edu.mn

Application

Qualified Bachelor degree holders may submit applications until December 31 (for Spring Semester, start: February 1) or July 31 (for Fall Semester, start: October 1).

Please register online: <http://gmit.edu.mn/register> and upload following documents:

- Bachelor's degree diploma;
- Transcript of Academic Records;
- Certificate of English proficiency, e.g. IELTS or TOEFL; (alternatively: GMIT English placement test);
- Letter of Motivation (in English);
- CV/resume (in English);
- Copy of National ID card.

We are looking forward to receiving your application.

Study program overview

The Master of Science (M.Sc.) in Resources and Technology is a two-year study program with 120 ECTS-CP. Enrolled M.Sc. students must complete the following modules successfully to obtain this prestigious GMIT degree:

Core Modules (scientific and engineering methods)

- Design of Experiments
- Engineering Statistics
- Optimization Techniques
- Engineering Ethics
- Innovation and Entrepreneurship

Electives (Wide range of elective modules for the following specializations)

- Research and Development (R&D) Methods for Industry
- Technology in Mining and Industry
- Engineering Methods, e.g. for Mechanical, Process or Energy Engineering
- Sustainable Resource Utilization
- Innovation and Technology Management
- Technical/Engineering Project Management
- Additionally: Academic Writing in English

Advanced Research Project

Master's Thesis



Research work in our fully equipped laboratories.

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