



FACTS & FIGURES

2020



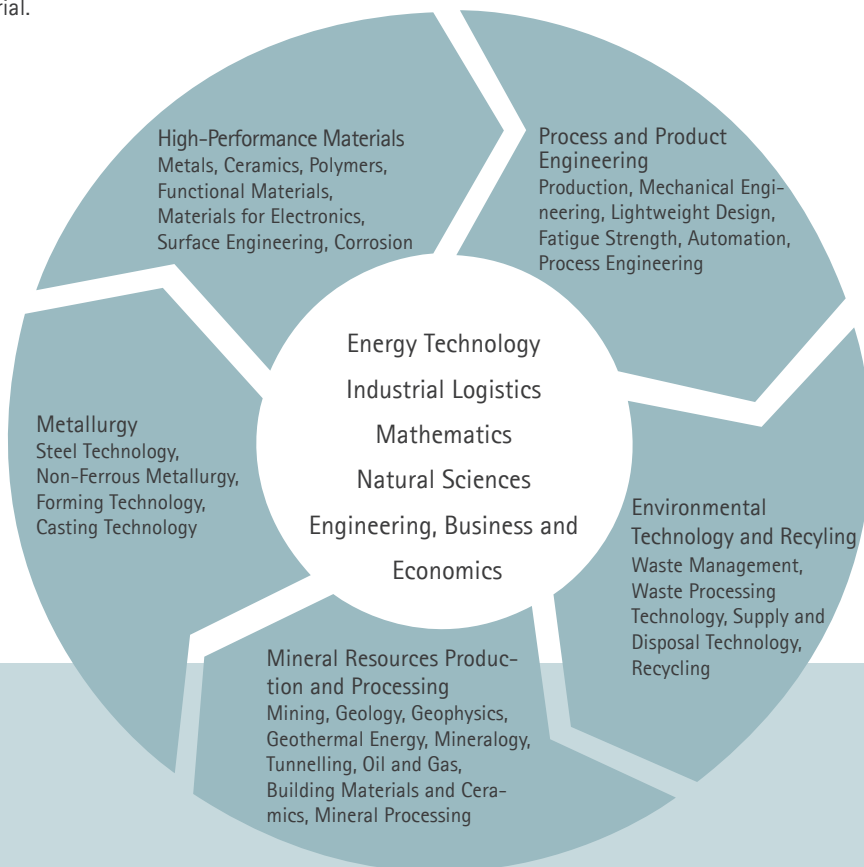
WHERE RESEARCH MEETS THE FUTURE

CREATING ADDED VALUE FOR THE FUTURE

We are a „Global Center of Excellence“ in our core disciplines

- Mineral Resources Production and Processing
 - Metallurgy
 - High-Performance Materials
 - Process and Product Engineering
 - Environmental Technology and Recycling,
- which are complemented by the following fields of research
- Energy Technology and Resource Management
 - Safety Engineering and Risk Management
 - Mathematics, Natural Sciences, Engineering and Economics.

The unique fields of research and key competences of Montanuniversität Leoben are significantly shaped by the interdisciplinary research environment and the close collaboration between departments and institutes. Montanuniversität Leoben aims to establish sustainability within the value-added cycle, from raw materials to the finished product, on to the disposal of the product and its recycling and reuse as a secondary raw material.





BACHELOR PROGRAMMES

- Applied Geosciences
- Mineral Resources Engineering
- Int. Study Program in Petroleum Engineering
- Industrial Energy Technology
- Materials Science
- Polymer Engineering and Science
- Metallurgy

- Mechanical Engineering
- Industrial Logistics
- Industrial Data Science*
- Industrial Environmental Protection and Process Engineering
- Recycling

* Starting in Fall 2020

MASTER PROGRAMMES

- Applied Geosciences
- Mining and Tunnelling
- Raw Materials Engineering
- Advanced Mineral Resources Development*
- Int. Master of Science in Building Materials and Ceramics*
- Industrial Management and Business Administration
- Int. Study Program in Petroleum Engineering*
- Int. Master in Applied and Exploration Geophysics*
- Joint Int. Master Program in Petroleum Engineering*

- Industrial Energy Technology
- Materials Science
- Polymer Engineering and Science
- Metallurgy
- Mechanical Engineering
- Industrial Logistics
- Int. Master in Sustainable Materials*
- Industrial Environmental Protection and Process Engineering
- Recycling

Further information: <http://starter.unileoben.ac.at>.

* in English

POSTGRADUATE COURSES

- Advanced Drilling Engineering (Master of Engineering)*
- MBA Generic Management
- International Mining Engineer*
- Corrosion-Expert
- Life Cycle Management in Industrial Plant Engineering (Master of Engineering or Certificate)
- NATM New Austrian Tunnelling Method* (Master of Engineering or Certificate)
- Sustainability Management
- Product Development
- Quality Management
- Raw Material Processing

- Process and Plant Safety, Emergency and Disaster Management (Master of Engineering or Certificate)
- Quality Assurance in Laboratory
- Recycling (Master of Engineering or Certificate)
- Resource Management and Recycling (Master of Engineering)
- Blasting Engineering
- Rock Engineering for Deep Mines*

Further information <http://weiterbildung.unileoben.ac.at>.

* in English

BEGINNERS

Beginners	2017/18	2018/19	2019/20
Field of Study	Total/Women	Total/Women	Total/Women
Mineral Resources Engineering (BSc) Mining and Tunnelling / Raw Materials Engineering / Advanced Mineral Resources Development / Int. Master of Science in Building Materials and Ceramics (MSc)	50/18 32/7	42/12 34/8	42/9 44/12
Int. Study Program in Petroleum Engineering (BSc) Int. Study Program in Petroleum Engineering / Industrial Management and Business Management (MSc)	37/3 57/14	45/13 49/5	20/4 52/10
Metallurgy (BSc) Metallurgy / Int. Master in Sustainable Materials (MSc)	24/2 8/1	27/6 20/5	34/5 17/3
Mechanical Engineering (BSc) Mechanical Engineering (MSc)	58/5 34/1	45/0 26/4	49/6 16/3
Materials Science (BSc) Materials Science (MSc)	47/14 20/1	41/9 23/6	35/14 20/7
Polymer Engineering and Science (BSc) Polymer Engineering and Science (MSc)	33/6 6/1	23/7 12/3	33/13 7/2
Applied Geosciences (BSc) Applied Geosciences (MSc)	38/11 12/5	24/10 7/2	25/9 8/3
Industrial Environmental Protection and Process Engineering (BSc) Industrial Environmental Protection and Process Engineering (MSc)	39/16 8/4	41/22 16/4	22/13 14/6
Industrial Logistics (BSc) Industrial Logistics (MSc)	34/7 14/3	40/16 14/7	34/9 22/6
Industrial Energy Technology (BSc) Industrial Energy Technology (MSc)	24/4 13/1	37/7 29/5	34/10 16/6
Recycling (BSc) Recycling (MSc)	18/3 0	18/6 2/1	20/10 2/1
Doctorates (Dr.mont.)	51/20	72/15	67/18
TOTAL	657/147	690/173	633/179

TOTAL NUMBER OF STUDENTS

2017/2018	2018/2019	2019/2020
3,912	3,822	3,721

INTERNATIONAL STUDENTS

2017/2018	2018/2019	2019/2020
651	677	699

BUDGET

Revenue	2018 in EUR	2019 in EUR
Basic federal budget	50,297,891.55	54,553,408.50
Tuition fees	2,683,677.91	1,356,879.99
Income from contractual work	31,803,772.61	38,344,025.48

Graduations	2016/17	2017/18	2018/19
Field of Study	Total/Women	Total/Women	Total/Women
Mineral Resources Engineering (BSc)	17/1	21/3	21/3
Mining and Tunnelling / Raw Materials Engineering / Advanced Mineral Resources Development / Int. Master of Science in Building Materials and Ceramics (MSc)	32/4	40/12	26/5
Int. Study Program in Petroleum Engineering (BSc)	43/10	30/5	31/5
Int. Study Program in Petroleum Engineering / Industrial Management and Business Management (MSc)	47/10	45/8	47/16
Metallurgy (BSc)	15/0	23/6	28/6
Metallurgy (MSc)	17/5	17/2	25/3
Mechanical Engineering (Diploma Programme)**	9/1	0	0
Mechanical Engineering (BSc)	26/1	42/4	46/8
Mechanical Engineering (MSc)	14/0	22/2	31/2
Materials Science (Diploma Programme)**	22/7	0	0
Materials Science (BSc)	24/5	31/5	54/7
Materials Science (MSc)	10/0	9/3	25/4
Polymer Engineering and Science (BSc)	15/3	18/4	14/9
Polymer Engineering and Science (MSc)	18/8	14/3	10/3
Applied Geosciences (BSc)	14/8	12/4	14/9
Applied Geosciences (MSc)	7/1	8/2	17/7
Industrial Environmental Protection and Process Engineering (BSc)	18/8	12/3	28/11
Industrial Environmental Protection and Process Engineering (MSc)	22/10	19/6	14/6
Industrial Logistics (BSc)	16/6	21/10	23/6
Industrial Logistics (MSc)	10/2	14/6	10/6
Industrial Energy Technology (BSc)	10/4	19/0	23/3
Industrial Energy Technology (MSc)	7/3	12/1	10/2
Doctorates (Dr.mont.)	69/25	76/22	69/21
TOTAL	482/122	505/111	566/142

STAFF

(Reference date 31 December 2019, including external teaching and part-time employees, head count)

Academic Staff	991
Professors	49
Scientific Staff, including	906
→ Lecturers	19
→ Associated Professors	17
→ Assistant Professors	2
→ those funded by research projects	602
Non-Academic Staff	381
→ including those funded by research projects	78
TOTAL	1,364

PUBLIC PRIVATE PARTNERSHIPS

The university has a large network of institutions which perform applied research or assist with starting new businesses. These "satellite" institutions keep close contact to the "mother institution" Alma Mater Leobensis, but are entirely independent and work closely with industry and business partners.

- MCL: Materials Center Leoben
- PCCL: Polymer Competence Center Leoben
- Erich Schmid Institute: Member of the Austrian Academy of Sciences
- TTZ: Technology Transfer Center
- CD-Labors: Christian Doppler Laboratories
- ZAT: Center for Applied Technology
- ÖGI: Austrian Foundry Research Institute

COMPETENCE CENTRES

Competence centres are characterised by their pioneering research programmes, thus taking significant effort to develop and implement their projects. They are internationally visible and renowned, with access to a global network.

The objective of the "K project" line is to promote cooperation between research centres and industry, to develop joint research competences and to advance their scientific and economic implementation. Montanuniversität Leoben is part of the following competence centres:

K2-Zentrum „Materials Center Leoben" (MCL), K1-Zentrum „Polymer Competence Center Leoben GmbH" (PCCL), K1-Zentrum „Metallurgical Competence Center" (K1-MET), K1-Zentrum „LEC EvoLET"

RESOURCES INNOVATION CENTER LEOBEN

The Resources Innovation Center (RIC) Leoben at Montanuniversität cooperates with international partners in terms of sustainability in science, education and industrialisation. The first partnership of RIC Leoben was with EIT RawMaterials, a pan-European network for raw materials including 125 partners. EIT RawMaterials is one of the so-called Knowledge & Innovation Communities (KIC), founded by the European Institute for Innovation and Technology. A KIC consists of a consortium of stakeholders from industry, science and education and it aims to contribute to solutions of societal challenges through innovation projects. In particular, RIC Leoben works on projects in the area of education, sustainable exploration & mining, technological innovation and recycling and it is an active partner in terms of the strategic development of the community. Since 2017, RIC Leoben is also part of EIT Climate-KIC, another Knowledge & Innovation Community.

CURRENT EU-PROJECTS

Chair of Ceramics

- ITERAMS – Integrated mineral technologies for more sustainable raw material supply
- ATHOR – Advanced THERmomechanical mOdelling of Refractory linings

Chair of Materials Physics

- TOUGHIT – Tough Interface Tailored Nanostructured Metals
- StressLIC – Addressing the stress-related functional limitations of thin-film Li-ion components for energy-intensive applications
- BIOREMIA – BIOfilm-Resistant Materials for hard tissue Implant Applications

Chair of Mining Engineering and Mineral Economics

- SLIM – Sustainable Low Impact Mining solution for exploitation of small mineral deposits based on advanced rock blasting and environmental technologies (in cooperation with the chair of Applied Geophysics)

- REMIX – Smart and Green Mining Regions
- MIREU – Mining and Metallurgy Regions of EU
- INTERMIN – International Network of Raw Materials Training Centres
- ROBOMINERS – Resilient Bio-inspired Modular Robotic Miners
- MinSiDeg – Minimise sinter degradation between sinter plant and blast furnace exploiting embedded real-time analytics
- RE-SOURCING – Global Stakeholder Platform for responsible mineral resources

Chair of Nonferrous Metallurgy

- TRANSDSIGN – Design of Phase Transition Kinetics in Non-Equilibrium Metals
- Fines2EAF – Cement-free brick production technology for the use of primary and secondary raw material fines in EAF steelmaking

Chair of Physical Metallurgy and Metallic Materials

- ADVANCE – Sophisticated experiments and optimisation to advance an existing CALPHAD database for next generation TiAl alloys
- NEWTEAM – Next generation low pressure Turbine Airfoils by aM
- iNiTiAl – Advanced implementation of novel corrosion resistant maraging steels with improved process robustness via tuned intermetallic nano-precipitation

Chair of Polymer Processing

- INEX-ADAM – Increasing Excellence on Advanced Additive Manufacturing
- SUSMAGPRO – Sustainable Recovery, Reprocessing and Reuse of Rare-Earth Magnets in a Circular Economy
- C-PlaNet – Circular Plastics Network for Training

Industrial Liaison Department

- I AM RRI – Webs of Innovation and Value Chains of Additive Manufacturing under Consideration of RRI
- DigiTeRRI – Responsible Research and Innovation Approach for Transitioning the Traditional Industry Regions into Digitalised Industry Territories
- illuMINeation – Bright concepts for a safe and sustainable digital mining future

Other projects

- NEW-MINE – EU Training Network for Resource Recovery through Enhanced Landfill Mining, Chair of Waste Processing Technology and Waste Management
- SME 4.0 – Industry 4.0 for SMEs – Smart Manufacturing and Logistics for SMEs in an X-to-order and Mass Customization Environment, Chair of Industrial Logistics
- HIPERFAN – High Performance Journal Bearing Technology for new geared TurboFAN generations, Chair of Mechanical Engineering
- i3upgrade – Integrated and intelligent upgrade of carbon sources through hydrogen addition for the steel industry, Chair of Process Technology and Industrial Environmental Protection
- CeraText – Tailoring Microstructure and Architecture to Build Ceramic Components with Unprecedented Damage Tolerance, Chair of Structural and Functional Ceramics
- STOPATT – Stochastic pattern formation in biochemical systems, Chair of Applied Mathematics
- RECPP – Pre-purposing Coal Power Plants during Energy Transition, Chair of Energy Network Technology
- FCCIS – Future Circular Collider Innovation Study, Chair of Subsurface Engineering

CHRISTIAN DOPPLER LABORATORIES

CHRISTIAN DOPPLER LABORATORIES

- Metallurgical Applications of Magneto-Hydro-Dynamics, Chair of Simulation and Modelling of Metallurgical Processes
- Advanced Aluminum Alloys, Chair of Nonferrous Metallurgy
- Advanced Coated Cutting Tools, Chair of Functional Materials and Materials Systems
- Manufacturing Process Based Component Design, Chair of Mechanical Engineering
- Advanced Synthesis of Novel Multifunctional Coatings, Chair of Physical Metallurgy and Metallic Materials
- Extractive Metallurgy of Technological Metals, Chair of Nonferrous Metallurgy
- High Efficient Composite Processing, Chair of Processing of Composites

CONTACT

RECTORATE

Univ.-Prof. Dr. Wilfried Eichlseder, Rector

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