



RWTH Aachen University

Technische Universität Berlin

Technische Universität Braunschweig

Technische Universität Darmstadt

Technische Universität Dresden

Leibniz Universität Hannover

Karlsruhe Institute of Technology

Technische Universität München

University of Stuttgart

# ENGLISH MASTER'S DEGREE PROGRAMMES ACADEMIC YEAR 2016/2017

[www.tu9.de/master](http://www.tu9.de/master)

## ADMISSION REQUIREMENTS

To enroll in an English master's degree programme, a first recognized university degree (typically a bachelor's degree) is required. Moreover, applicants need proficiency in English. For further information on the individual study programmes please visit: [www.tu9.de/master](http://www.tu9.de/master).

## APPLICATION PROCESS

Applications must be submitted to the respective TU9 University. Most of the master's courses are subject to admission restrictions. Procedures and factors taken into account may vary.

Application deadlines for different master's courses vary. You will find details of application periods and requirements on the individual university website.

## COURSE DEGREE UNIVERSITY SPECIAL CHARACTERISTICS

COURSE	DEGREE	UNIVERSITY	SPECIAL CHARACTERISTICS
<b>Agriculture &amp; Forest Science</b>			
Horticultural Science	Master of Science	TU München	international programme in cooperation with European partner universities
International Horticulture	Master of Science	Leibniz Universität Hannover	
Sustainable Resource Management	Master of Science	TU München	
Tropical Forestry	Master of Science	TU Dresden	joint degree programme in cooperation with European partner universities is possible

## Architecture, Urban Planning, Civil Engineering

Advanced Computational and Civil Engineering Structural Studies (ACCESS)	Master of Science	TU Dresden	
Computational Mechanics	Master of Science	TU München	in cooperation with Elite Network of Bavaria, degree „Master of Science with Honours“ is possible
Computational Mechanics of Materials and Structures (COMMAS)	Master of Science	University of Stuttgart	
European Master in Territorial Development	Master of Science	TU Braunschweig and Leibniz Universität Hannover	obligatory stay abroad during 3rd semester
Infrastructure Planning (MIP)	Master of Science	University of Stuttgart	
Integrated Urbanism & Sustainable Design (IUSD)	Master of Science	University of Stuttgart	double degree in cooperation with Ain Shams University, Cairo, Egypt
Integrative Technologies and Architectural Design Research (ITECH)	Master of Science	University of Stuttgart	
International Cooperation and Urban Development	Master of Science	TU Darmstadt	joint degree programme in cooperation with European partner universities is possible; including elective courses in German
Land Management and Land Tenure	Master of Science	TU München	executive programme (tuition fee)
Life Science Economics and Policy	Master of Science	TU München	
Transport and Logistics	Master of Science	TU München	at GIST-TUM Asia, Singapore (tuition fee)
Transportation Systems	Master of Science	TU München	
Urban Development	Master of Science	TU Berlin	partly takes place at Campus El Gouna, Egypt (tuition fee)
Urban Management	Master of Science	TU Berlin	tuition fee

## Biology, Chemistry, Medicine

Biodiversity and Collection Management	Master of Science	TU Dresden	in cooperation with Senckenberg Society. Courses at International Institute Zittau and at Senckenberg Institute Görlitz, internships at Senckenberg Institutes all over Germany.
Ecosystem Services	Master of Science	TU Dresden	in cooperation with Senckenberg Society. Courses at International Institute Zittau and at Senckenberg Institute Görlitz.
Industrial Chemistry	Master of Science	TU München	joint degree programme at GIST-TUM Asia in cooperation with NUS, Singapore (tuition fee)
Laboratory Animal Science	Master of Science	RWTH Aachen	at RWTH Aachen University International Academy (tuition fee)
Lasers in Dentistry	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy (tuition fee)
Nutrition and Biomedicine	Master of Science	TU München	
Organic and Molecular Electronics	Master of Science	TU Dresden	interdisciplinary study programme comprising physics, chemistry, electrical engineering, and materials science
Radiation Biology	Master of Science	TU München	
Regenerative Biology and Medicine	Master of Science	TU Dresden	

## Biotechnology, Bioengineering, Medical Engineering

Biomedical Computing	Master of Science	TU München	
Biomedical Engineering	Master of Science	RWTH Aachen	
Lasers in Dentistry	Master of Science	RWTH Aachen	executive programme at RWTH Aachen University International Academy (tuition fee)
Medical Radiation Sciences	Master of Science	TU Dresden	two profiles: profile „Medical Radiation Biology“ completely taught in English
Molecular Bioengineering	Master of Science	TU Dresden	
Nanobiophysics	Master of Science	TU Dresden	joint master's degree in cooperation with European partner universities is possible
Nanoelectronic Systems	Master of Science	TU Dresden	

## Computer Science

Biomedical Computing	Master of Science	TU München	
Computational Linguistics	Master of Science	University of Stuttgart	
Computational Logic	Master of Science	TU Dresden	joint master's degree in cooperation with European partner universities is possible (tuition fee)
Computational Mechanics	Master of Science	TU München	in cooperation with Elite Network of Bavaria, degree "Master of Science with Honours" is possible
Computational Mechanics of Materials and Structures (COMMAS)	Master of Science	University of Stuttgart	
Computational Neuroscience	Master of Science	TU Berlin	joint degree programme in cooperation with HU Berlin and Charité-Universitätsmedizin Berlin
Computational Science and Engineering	Master of Science	TU München	in cooperation with Elite Network of Bavaria, degree „Master of Science with Honours“ is possible
Computational Sciences in Engineering (CSE)	Master of Science	TU Braunschweig	bilingual programme including courses taught in German (German language skills on level A1 required)
Computer Science	Master of Science	University of Stuttgart	including elective courses taught in German
Computer Science	Master of Science	TU Berlin	
Computer Simulations for Science and Engineering (COSSE)	Master of Science	TU Berlin	joint degree programme in cooperation with European partner universities, coordinated by KTH Stockholm, Sweden
Distributed Software Systems	Master of Science	TU Darmstadt	
Distributed Systems Engineering	Master of Science	TU Dresden	joint master's degree in cooperation with European partner universities is possible
ICT Innovation	Master of Science	TU Berlin	joint degree programme in cooperation with European partner universities (coordinated by EIT ICT Labs at KTH Stockholm, Sweden)
Informatics	Master of Science	TU München	
Informatics: Games Engineering	Master of Science	TU München	
Information Systems Management	Master of Science	TU Berlin	language of instruction either English or German
Information Technologies for Business Intelligence (IT4BI)	Master of Science	TU Berlin	joint degree programme coordinated by Free University of Brussels, Belgium
Internet Technologies and Information Systems (ITIS)	Master of Science	TU Braunschweig and Leibniz Universität Hannover	in cooperation with TU Clausthal and Universität Göttingen
Media Informatics	Master of Science	RWTH Aachen	in cooperation with Bonn Aachen International Center for Information Technology; compulsory German language course included in programme
Scientific Computing	Master of Science	TU Berlin	including courses taught in German
Service Management and Engineering (SME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Simulation Sciences	Master of Science	RWTH Aachen	in cooperation with German Research School for Simulation Sciences
Software Systems Engineering	Master of Science	RWTH Aachen	
Technology Management	Honours Degree	TU München	in cooperation with LMU Munich and Elite Network of Bavaria

## Economics & Management

Business & IT	Master of Business Administration	TU München	Executive MBA
Consumer Affairs (EURECA)	Master of Science	TU München	joint master's degree programme in cooperation with European partner universities is possible
Economics and Management	Master of Science	Leibniz Universität Hannover	the master programme Economics and Management offers different majors, of which three are in English language. Major: Development and Environment, M.Sc., Major: Finance, M.Sc., Major: International Management, M.Sc.
Ecosystem Services	Master of Science	TU Dresden	in cooperation with Senckenberg Society. Courses at International Institute Zittau and at Senckenberg Institute Görlitz.
Energy Engineering and Management (EEM)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Financial Engineering (FE)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
General Management	Master of Business Administration	TU München	Executive MBA
Green Mobility Engineering (GME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Industrial and Network Economics (MINE)	Master of Science	TU Berlin	
Innovation and Business Creation	Master of Business Administration	TU München	Executive MBA
Innovation Management and Entrepreneurship	Master of Science	TU Berlin	joint degree programme in cooperation with University of Twente, Netherlands, and Warsaw School of Economics, Poland
Management and Engineering in Computer Aided Mechanical Engineering	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Management and Engineering in Electrical Power Systems	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Management and Engineering in Production Systems	Master of Science	RWTH Aachen	executive programme at RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Management and Engineering in Water	Master of Science	RWTH Aachen	executive programme at RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Management of Product Development (MPD)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Production and Operations Management (POM)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Service Management & Engineering (SME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Technology Management	Honours Degree	TU München	in cooperation with LMU Munich and Elite Network of Bavaria

## Electrical and Communications Engineering

Communications Engineering	Master of Science	TU München	
Computational Sciences in Engineering (CSE)	Master of Science	TU Braunschweig	bilingual programme including courses taught in German (German language skills on level A1 required)
Electrical Engineering, Information Technology, and Computer Engineering	Master of Science	RWTH Aachen	two specializations completely in English; six further specializations in German
Electronic Systems Engineering and Management (ESEM)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Energy Technologies (ENTECH)	Master of Science	KIT	within the framework of KIC InnoEnergy; in cooperation with European partner universities
European Master of Research on Information and Communication Technologies (MERIT)	Master of Science	KIT	joint degree programme in cooperation with European partner universities (tuition fee)
EuroPhotonics – Master in Photonics Engineering, Nano-photonics, and Biophotonics	Master of Science	KIT	at Karlsruhe School of Optics and Photonics (KSOP); Erasmus Mundus programme in cooperation with European partner universities
Green Electronics	Master of Science	TU München	joint degree programme at GIST-TUM Asia in cooperation with NTU, Singapore (tuition fee)
Information and Communication Engineering	Master of Science	TU Darmstadt	some elective courses taught in German (free German language course included in programme)
Information Technology (INFOTECH)	Master of Science	University of Stuttgart	compulsory German language course included in programme
Integrated Circuit Design	Master of Science	TU München	joint degree programme at GIST-TUM Asia in cooperation with NTU, Singapore (tuition fee)
Internet Technologies and Information Systems (ITIS)	Master of Science	TU Braunschweig and Leibniz Universität Hannover	in cooperation with TU Clausthal and Universität Göttingen
Management and Engineering in Electrical Power Systems	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Nanoelectronic Systems	Master of Science	TU Dresden	
Optics and Photonics	Master of Science	KIT	at Karlsruhe School of Optics and Photonics (KSOP)
Organic and Molecular Electronics	Master of Science	TU Dresden	interdisciplinary study programme comprising physics, chemistry, electrical engineering, and materials science
Service Management and Engineering (SME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Power Engineering	Master of Science	TU München	
Power Systems and Energy Management	Master of Science	TU München	joint degree programme at GIST-TUM Asia (tuition fee)

COURSE	DEGREE	UNIVERSITY	SPECIAL CHARACTERISTICS
<b>Environmental Engineering</b>			
Air Quality Control, Solid Waste and Waste Water Process Engineering (WASTE)	Master of Science	University of Stuttgart	compulsory German language course included in programme; some elective courses taught in German
ClimaDesign	Master of Science	TU München	executive programme (tuition fee)
Energy Engineering	Master of Science	TU Berlin	partly takes place at Campus El Gouna, Egypt (tuition fee)
Energy Engineering and Management (EEM)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Energy Management	M.B.A.	TU Berlin	tuition fee
Environmental Engineering	Master of Science	TU München	
Environmental Planning	Master of Science	TU Berlin	some elective courses taught in German
Environmental Policy and Planning	M.A.	TU Berlin	in cooperation with FU Berlin; German language skills on beginners level required
Green Mobility Engineering (GME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Hydro Science and Engineering	Master of Science	TU Dresden	joint degree programme in cooperation with international partner universities is possible
Management and Engineering in Water	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Polymer Science	Master of Science	TU Berlin	joint degree programme in cooperation with FU Berlin, HU Berlin and Universität Potsdam
ProWater – Sustainable Management and Protection of Water (Distance Learning)	Master of Science	TU Braunschweig	two language profiles: language of instruction either German or English; distance learning course (tuition fee)
Tropical Hydrogeology and Environmental Engineering (TropHEE)	Master of Science	TU Darmstadt	
Water Engineering	Master of Science	TU Berlin	partly takes place at Campus El Gouna, Egypt (tuition fee)
Water Resources and Environmental Management	Master of Science	Leibniz Universität Hannover	
Water Resources Engineering and Management (WAREM)	Master of Science	University of Stuttgart	double degree programme with international partner universities is possible; compulsory German language course in first semester
Water Science and Engineering	Master of Science	KIT	

<b>Geodesy, Georesources &amp; Materials Sciences</b>			
Applied Geophysics	Master of Science	RWTH Aachen	joint degree programme in cooperation with TU Delft, Netherlands, and ETH Zurich, Switzerland
Cartography	Master of Science	TU Dresden and TU München	in cooperation with TU Wien, Austria
Earth Oriented Space Science and Technology (ESPACE)	Master of Science	TU München	joint degree programme in cooperation with Wuhan University, China, is possible
Geodesy and Geoinformatics	Master of Science	KIT	some elective courses taught in German (German language skills on intermediate level required)
Geodesy and Geoinformatics	Master of Science	Leibniz Universität Hannover	no German language skills required for application
Geodesy and Geoinformation Science	Master of Science	TU Berlin	
Geomatics Engineering (GEOENGINE)	Master of Science	University of Stuttgart	
Land Management and Land Tenure	Master of Science	TU München	executive programme (tuition fee)
Materials Science	Master of Science	TU Darmstadt	
Materials Science	Master of Science	University of Stuttgart	double degree programme with international partner universities is possible
Metallurgical Engineering	Master of Science	RWTH Aachen	

<b>Humanities, Law &amp; Education</b>			
European and International Energy Law	Master of Business Law	TU Berlin	tuition fee
Intellectual Property and Competition Law	Master of Laws	TU München	in cooperation with Max Planck Institute and international partner universities
IT Law and Intellectual Property Law	Master of Laws	Leibniz Universität Hannover	bilingual programme with European partner universities; can be completed in English
Research on Teaching and Learning	Master of Education	TU München	

<b>Mathematics</b>			
Mathematical Finance and Actuarial Science	Master of Science	TU München	
Mathematics	Master of Science	KIT	
Mathematics	Master of Science	TU München	
Mathematics in Bioscience	Master of Science	TU München	
Mathematics in Operations Research	Master of Science	TU München	
Mathematics in Science and Engineering	Master of Science	TU München	

<b>Mechanical Engineering</b>			
Aerospace Engineering	Master of Science	TU München	joint degree programme at GIST-TUM Asia in cooperation with NTU, Singapore (tuition fee)
Automotive Engineering	Master of Science	RWTH Aachen	at RWTH Aachen University International Academy (tuition fee); compulsory German language course included in programme
Computational Mechanics	Master of Science	TU München	in cooperation with Elite Network of Bavaria, degree „Master of Science with Honours“ is possible
Computational Mechanics of Materials and Structures (COMMAS)	Master of Science	University of Stuttgart	German language course included in programme
Computer Aided Conception and Production in Mechanical Engineering	Master of Science	RWTH Aachen	at RWTH Aachen University International Academy (tuition fee); compulsory German language course included in programme
Energy Engineering and Management (EEM)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Energy Technologies (ENTECH)	Master of Science	KIT	within the framework of KIC InnoEnergy; in cooperation with European partner universities
Global Production Engineering in Manufacturing	Master of Science	TU Berlin	tuition fee
Global Production Engineering in Solar Technology	Master of Science	TU Berlin	tuition fee
Green Mobility Engineering (GME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
International Mechatronics	Master of Science	Leibniz Universität Hannover	double degree in cooperation with SPbSPU, Saint Petersburg, Russia: 1st year in Saint Petersburg, 2nd year in Hanover
Management and Engineering in Computer Aided Mechanical Engineering	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Management and Engineering in Production Systems	Master of Science	RWTH Aachen	executive programme at RWTH Aachen University International Academy; in cooperation with Maastricht School of Management, Netherlands (tuition fee)
Management of Product Development (MPD)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Mechanical Engineering	Master of Science	University of Stuttgart	joint degree with Georgia Tech, Atlanta, USA; 1 year in Atlanta, 1 in Stuttgart
Production and Operations Management (POM)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Production Systems Engineering	Master of Science	RWTH Aachen	at RWTH Aachen University International Academy (tuition fee)
Service Management & Engineering (SME)	Master of Science	KIT/HECTOR School	executive programme at HECTOR School, Technology Business School of the KIT (tuition fee)
Space Engineering (MSE)	Master of Science	TU Berlin	tuition fee
Textile Engineering	Master of Science	RWTH Aachen	executive programme at the RWTH Aachen University International Academy (tuition fee)

<b>Physics</b>			
Computational Mechanics	Master of Science	TU München	in cooperation with Elite Network of Bavaria, degree „Master of Science with Honours“
EuroPhotonics – Master in Photonics Engineering, Nanophotonics, and Biophotonics	Master of Science	KIT	at Karlsruhe School of Optics and Photonics (KSOP); Erasmus Mundus programme in cooperation with European partner universities
Nanobiophysics	Master of Science	TU Dresden	joint degree programme in cooperation with European partner universities is possible
Optical Technologies	Master of Science	Leibniz Universität Hannover	no German language skills required for application
Optics and Photonics	Master of Science	KIT	at Karlsruhe School of Optics and Photonics (KSOP)
Organic and Molecular Electronics	Master of Science	TU Dresden	interdisciplinary study programme comprising physics, chemistry, electrical engineering, and materials science
Physics	Master of Science	Leibniz Universität Hannover	no German language skills required for application
Physics	Master of Science	RWTH Aachen	
Physics	Master of Science	University of Stuttgart	
Physics (Applied and Engineering Physics)	Master of Science	TU München	

<b>RWTH Aachen University</b>  founded in 1870 43,721 students 16% international students <a href="http://www.rwth-aachen.de">www.rwth-aachen.de</a>	
<b>Technische Universität Berlin</b>  founded in 1879 31,700 students 19.3% international students <a href="http://www.tu-berlin.de">www.tu-berlin.de</a>	
<b>Technische Universität Braunschweig</b>  founded in 1745 18,500 students 12% international students <a href="http://www.tu-braunschweig.de">www.tu-braunschweig.de</a>	
<b>Technische Universität Darmstadt</b>  founded in 1877 26,500 students 18% international students <a href="http://www.tu-darmstadt.de">www.tu-darmstadt.de</a>	
<b>Technische Universität Dresden</b>  founded in 1828 36,000 students 13.5% international students <a href="http://tu-dresden.de">tu-dresden.de</a>	
<b>Leibniz Universität Hannover</b>  founded in 1831 26,500 students 12% international students <a href="http://www.uni-hannover.de">www.uni-hannover.de</a>	
<b>Karlsruhe Institute of Technology</b>  founded in 1825 24,778 students 17% international students <a href="http://www.kit.edu">www.kit.edu</a>	
<b>Technische Universität München</b>  founded in 1868 38,500 students 22% international students <a href="http://www.tum.de">www.tum.de</a>	
<b>University of Stuttgart</b>  founded in 1829 27,000 students 20% international students <a href="http://www.uni-stuttgart.de">www.uni-stuttgart.de</a>	

If you have any questions concerning studying at TU9, feel free to contact us:

TU9 German Institutes of Technology e.V.  
 Anna-Louisa-Karsch-Str. 2  
 10178 Berlin  
 Germany

Phone: + 49 (0) 30-2787 476-80  
 Fax: + 49 (0) 30-2787 476-88  
 E-mail: [studies@tu9.de](mailto:studies@tu9.de)  
 Web: [www.tu9.de](http://www.tu9.de)  
[www.tu9.de/master](http://www.tu9.de/master)

Published by / Available from: Venio Piero Quinque, LL.M/LL.B; M.A.  
 Executive Secretary  
 TU9 German Institutes of Technology

Layout / production: Pfefferkorn & Friends, Dresden  
 Photos: TU9 Alliance

