

Application and Admission

In order to be eligible for this study programme, a bachelor degree in Mechatronics, Mechanical Engineering, Electrical Engineering, Information Technology or a related field of study is required.

Applicants may apply at all of the three universities as long as they hold an European bachelor degree or a degree from anywhere else except Russia. Applicants with Russian bachelor degree may apply only at St. Petersburg. Entrance examinations should be taken at the university to which the student has applied.

Application deadline:

The application deadline is the 31st May every year. The study programme can only be commenced in a winter semester. It starts on the 1st September in Lappeenranta.

Further information on following websites

Hannover: www.et-inf.uni-hannover.de/746.html

Lappeenranta: www.lut.fi/masters

St. Petersburg: shortlinks.de/5493

Language:

The teaching language for the entire course is English. Before and during the study program preparatory language courses in German, Russian and Finnish are offered. Further information on these courses is available at the Language center in Hannover or all of the participating Universities.

www.fsz.uni-hannover.de

**APPLICATION
DEADLINE:
31st May**

About Lappeenranta



Lappeenranta is a forerunner in renewable energies and a clean living environment in Finland. It combines a safe and small-town atmosphere with full-scale urban comforts. Lappeenranta is located in the midst of a stunning landscape at the southern end of Europe's fourth largest lake, Saimaa, offering plenty of opportunities for outdoor sports and other activities both in summer and in winter.

Lappeenranta University of Technology (LUT) is a pioneering science university in Finland, bringing together the fields of science and business since 1969. The international community of LUT is composed of 6000 students and experts engaged in scientific research and academic education.

Clean energy and water, circular economy and sustainable business are the key questions to which LUT seeks solutions through technology and business. At LUT students can study in 16 different Master's programmes taught in English in areas of Energy Systems, Mechanical Engineering, Electrical Engineering, Chemical Technology, Sustainability, Information Technology, International Marketing, Finance, Sustainability and Innovations, and Supply Management.

About St. Petersburg



St. Petersburg is a wonderful city to visit. It is famous for its architecture, its unique beauty and rich culture.

The second largest city in the Russian Federation, St. Petersburg is often referred to as the Cultural Capital of Russia, or even Northern Venice, due to its many waterways and bridges. In fact, 68 rivers and canals flow through the historic city centre in all directions, dissecting it into 42 islands, with 580 bridges between them. Many of these bridges are masterpieces of engineering and architecture. Among Paris, Rome and Venice, the historical city centre of St. Petersburg has been declared a World Heritage site by the UNESCO.

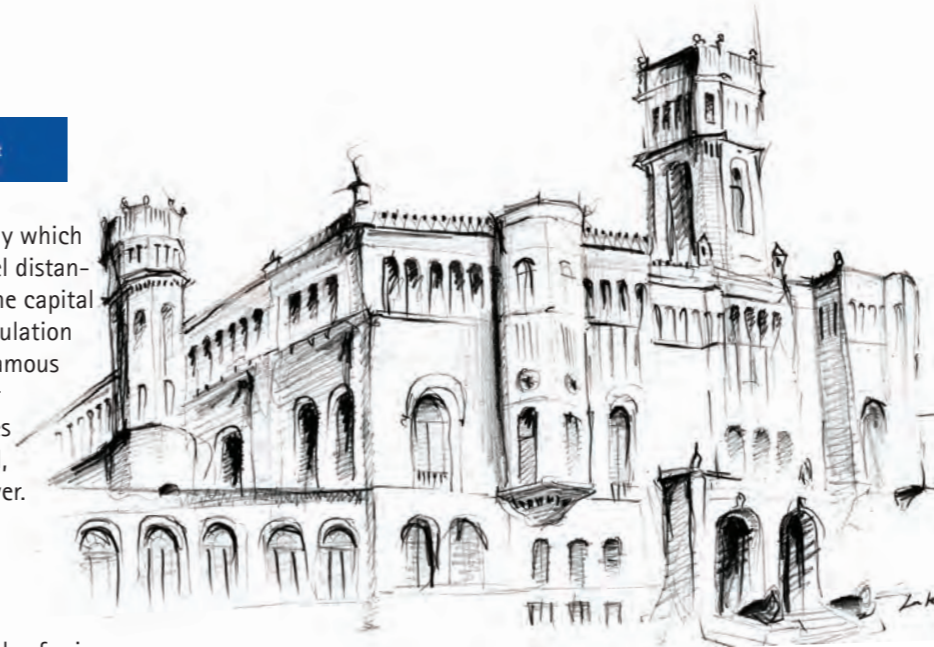
About Hannover



Hannover is one of the greenest cities in Germany which is appreciated for its central location, short travel distances, cultural diversity and affordable prices. As the capital of the Federal State of Lower-Saxony with a population of over 500.000 people, Hannover hosts world-famous international trade fairs like CeBIT and Hannover Industry Fair. In addition, international companies such as Continental, Volkswagen, Sennheiser, TUI, among others, are based in the region of Hannover.

Currently, 25.000 students are studying natural sciences and engineering, humanities and social sciences as well as law and economics at Leibniz Universität Hannover. The University with its fields of science and technology has an excellent reputation. It is part of the TU9, the top 9 Institutes of Technology in Germany.

The Faculty of Mechanical Engineering and the Faculty of Electrical Engineering belong to the largest faculties and the best funded. They excel in research and development, for example, conducting innovative research projects in the fields of mechatronics measurement systems, energy technology, production process optimization, among others.



Welfenschloss Leibniz Universität Hannover
drawing by Laura Lenk

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Admissions Office

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www.uni-hannover.de/de/studium/immatrikulation

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City of St. Petersburg >



**ENERGY
TECHNOLOGY
Trilateral Master**





Three degrees

Successful graduates from the study programme will be awarded three degrees:

Master of Science (MSc) in Technology (Energy Technology)
from Leibniz Universität Hannover, Germany

Master of Science (MSc) in Technology (Energy Technology)
from Lappeenranta University of Technology, Finland

Master of Science (MSc) in Technology (Power Plant Engineering)
from Peter the Great St.Petersburg Polytechnic University, Russia

International Energy Technology Trilateral Degree Programme

The programme is designed to give a highly-qualified specialisation in the field of Energy Technology. It is offered in English language by Leibniz Universität Hannover, Germany in cooperation with Peter the Great St. Petersburg Polytechnic University, Russia and Lappeenranta University of Technology, Finland.

The sector of energy technology is increasingly characterized by international and multinational collaborations. Thus, besides the technical expertise international experience is demanded. The master's degree programme 'Energy Technology' is offered to meet these arising requirements of internationality.

Technical expertise is taught in an international environment.

The 1st semester takes place in Lappeenranta, the 2nd semester in St.Petersburg and the 3rd one in Hannover. The master thesis can be written at the home university. In each semester the participants can receive 30 ECTS in approved courses at each university following lectures held in English.



Photo by Leibniz Universität Hannover

Curriculum for trilateral Programme



LAPPEENRANTA

Turbomachinery (4 ECTS)

Academic Writing in English (4 ECTS)

Numerical Methods in Heat Transfer (6 ECTS)

Turbomachinery in Renewable Energy (5 ECTS)

ELECTIVE COURSES:

Energy systems engineering (6 ECTS)
Bioenergy (3 ECTS)
Nuclear Reactor Design (6 ECTS)
Maintenance Management (4 ECTS)
Steam Boilers (6 ECTS)
Basic Course on Environmental Management and Economics (5 ECTS)
Advanced Topics in Modelling of Energy Systems (6 ECTS)
Design of an Electrical Machine (6 ECTS)

30 ECTS



ST.PETERSBURG

History and Philosophy of Science (2 ECTS)

Modern Energy Problems (2 ECTS)

Thermal Power Plants (6 ECTS)

Modes of Operation of Thermal Power Plants (4 ECTS)

Energy Efficient HVAC Systems (3 ECTS)

GROUP A (4 ECTS):

Energy Efficient Buildings and Structures or Energy Audit of Buildings and Constructions

GROUP B (4 ECTS):

Renewable Energy: Resources and Technologies of Modeling of Vaporization Processes

GROUP C (5 ECTS):

Energy Systems Engineering or Bioenergy Technology Solutions

30 ECTS



HANNOVER

Electrical Machines and Drives (5 ECTS)

Power Electronics (5 ECTS)

Electrical Supply Systems (5 ECTS)

Electrothermal Processes (5 ECTS)

Aeroacoustics and Aeroelasticity of Turbomachinery (5 ECTS)

Combustion Technology (5 ECTS)

Fuel Cells and Fuel Cell Systems (5 ECTS)

30 ECTS



HOME UNIVERSITY

MASTER THESIS

30 ECTS

