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 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

DE: https://www.et-inf.uni-hannover.de/energytechnology.

RU: http://english.spbstu.ru/education/programs/programs-

FI:  https://www.lut.fi/web/en/admissions/masters-studies

Further information on following websites

FAQ: https://www.et-inf.uni-hannover.de/energytechnology.

DE: https://www.et-inf.uni-hannover.de/energytechnology.

Contact

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Leibniz Universität Hannover
Faculty of Electrical Engineering and Computer Science

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www.et-inf.uni-hannover.de/energytechnology

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About Lappeenranta

Lappeenranta is a forerunner in renewable energies and a green 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, Informati on Technology, International Marketing, Finance, Sustainable and Innovative, and Supply Management.

About Hanover

Hanover 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, Hanover hosts world-famous international trade fairs like CeBIT and Hannover Industry Fair. In addition, international companies such as Continental, Volkswagen, Siemenses, TUI, among others, are based in the region of Hanover.

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 mechanistic measurement systems, energy technology, production process optimization, among others.

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.

During the study programme preparatory language courses in German, Russian and Finnish are offered. Further information on following websites:

application deadliness: 31st May
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 Hanover, 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 Hanover. 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.

Three degrees

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

- Master of Science (MSc) in Technology (Energy Technology) from Leibniz Universität Hanover, 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

Curriculum for trilateral Programme

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<thead>
<tr>
<th>SEMESTER</th>
<th>LAPPEENRANTA</th>
<th>ST. PETERSBURG</th>
<th>HANOVER</th>
<th>HOME UNIVERSITY</th>
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<tbody>
<tr>
<td>1</td>
<td>Turbomachinery (4 ECTS)</td>
<td>History and Philosophy of Science (2 ECTS)</td>
<td>Advanced Thermodynamics / Thermolab (5 ECTS)</td>
<td>Scientific and Research Work, Master Thesis Completion, Final Examination (30 ECTS)</td>
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<tr>
<td></td>
<td>Academic Writing in English (4 ECTS)</td>
<td>Modern Energy Problems (2 ECTS)</td>
<td>Electric Power Systems I (5 ECTS)</td>
<td>The master thesis will be written at the home university. The thesis must be defended. The defence must be attended by academic staff of all three partner universities. The primary supervisor should be from the institution where the master thesis is performed. The secondary supervisors should be from the other two partner universities.</td>
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<td>Numerical Methods in Heat Transfer (6 ECTS)</td>
<td>Thermal Power Plants (6 ECTS)</td>
<td>Combustion Technology (5 ECTS)</td>
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<td></td>
<td>• Biomass (5 ECTS)</td>
<td>• Advanced Topics in Modelling of Energy Systems (6 ECTS)</td>
<td>Electrotechnical Processes Electro-technologies (5 ECTS)</td>
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<td></td>
<td>• Market Engineering (6 ECTS)</td>
<td>• Basic Course on Environmental Management and Economics (5 ECTS)</td>
<td>Power Electronics (5 ECTS)</td>
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<td>• Maintainance Management (4 ECTS)</td>
<td>• Advanced Topics in Modelling of Energy Systems (6 ECTS)</td>
<td>Power Plant Technology I (5 ECTS)</td>
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<td>• Steam Boilers (6 ECTS)</td>
<td>• Design of an Electrical Machine (6 ECTS)</td>
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