



Admissions guide | 2021

BECOME AN LUT STUDENT

PROGRAMMES

- » Bachelor's
- Exchange
- Master's
- >> Seasonal
- >> Doctoral

DEGREES

- » Bachelor of Science in Technology, B.Sc. (Tech.)
- >> Master of Science in Technology, M.Sc. (Tech.)
- » Master of Science in Economics and Business Administration, M.Sc. (Econ. & Bus. Admin.)
- >> Doctor of Science in Technology, D.Sc. (Tech.)
- Doctor of Science in Economics and Business Administration, D.Sc. (Econ. & Bus. Admin.)
- >> Doctor of Philosophy, D.Phil.
- » lut.fi/admissions

Contact us

- » admission@lut.fi
- » Tel. +358 46 920 9173 or +358 40 738 1312

Lappeenranta campus Yliopistonkatu 34 53850 Lappeenranta, Finland

Lahti campus Mukkulankatu 19 15210 Lahti, Finland







LAND OF THE CURIOUS

People at LUT share a similar outlook on life and a state of mind. We look at things from unexpected perspectives, we question, and we search for solutions. We do things in a new way for a better tomorrow.

Clean energy and water, a circular economy, and sustainable business and entrepreneurship are key questions to which LUT seeks solutions through technology and business expertise.

Our special strengths include scientific quality, impact, and education that leads to employment. LUT has been listed among the world's top 500 universities in two of the most highly regarded rankings globally (THE 351–400, QS 470).*

At LUT, no one is left alone. We are inspired by the enthusiasm of others. We believe that together we are stronger than we are on our own. We fight for what is right.

Our campuses are located in Lappeenranta and Lahti, but our state of mind can be achieved anywhere. Be curious. Be one of us.

Juha-Matti Saksa Rector

Sources: Times Higher Education 2021, QS Ranking 2021.





technology and business since 1969.

Clean energy, water and air are life-giving resources for which we at LUT University seek new solutions with our expertise in technology and business. We help society and businesses in their sustainable renewal.

Our international community consists of 6 500 members of more than 80 different nationalities. Our campuses are in Lappeenranta and Lahti, Finland. We offer 22 Master's, 5 Bachelor's, doctoral, exchange and seasonal programmes.

INTERNATIONALLY RECOGNISED

We are among the top

200 in the THE Impact Rankings

400 in the THE World University Rankings

500 in the QS Rankings

900 in the Academic Ranking of World Universities | Shanghai Ranking

200 business schools in the THE World University Rankings for business and economic subjects

Times Higher Education, QS, ARWU World University Rankings 2019-2021.

CONNECTED TO INDUSTRY

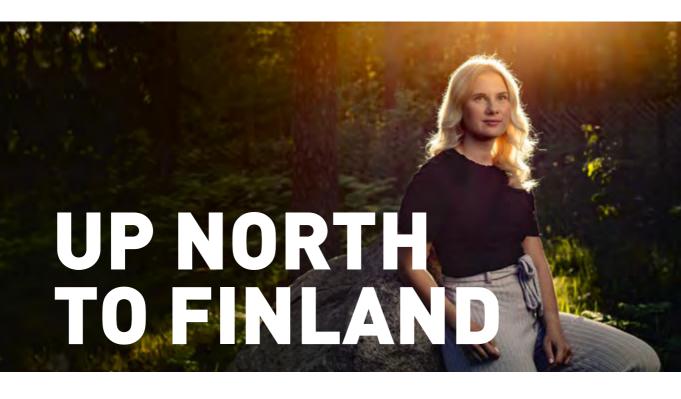
Our degree programmes are developed in close cooperation with industry, ensuring your studies are relevant to the changing needs of your profession. During your studies, you will work on industry projects and create solutions to real-world problems.

RESEARCH THAT MATTERS

We create innovations and new knowledge through science. We use the latest results of scientific research in our courses, ensuring you receive the most up-to-date information.

INTERNATIONALLY ACCREDITED PROGRAMMES

We continuously assess the quality of our education and research through international accreditations. Accreditation is a guarantee of the quality, international approval and continuing development of our programmes. Most of the Bachelor's and Master's programmes at LUT have gained international accreditations, e.g. ASIIN, EUR-ACE and EPAS.



Finland is a land of countless lakes, forests, fells and archipelagos - it is one the most extensive and unspoiled natural environments in Europe. Finland's air, forests, lakes and drinking water are exceptionally clean by global standards. More than 70% of Finland's land area is forest, which makes Finland one of the most forested countries in the world. The air quality in Finland is excellent because Finland is situated far from large sources of emissions, and the country has successfully cut back on its own emissions. Finland has four very distinct seasons temperatures may vary between -35°C and +35°C.

Finland is a small country on the global scale. Finland's population makes up barely 0.07 per cent of the world's population, and its land area as much of the world's total area. However, even a small country can leap to the top of the world, and this is what Finland has done: in international comparisons, Finland is often among the top nations along with other Nordic countries.



Finland is a country of innovation and technology and has continuously topped related global indices. Finnish companies highly value innovation designed to solve problems in a pragmatic and surprising way. In fact, Finland is the home of many world-leading companies in areas such as forest products and the biomass industry (UPM, Stora Enso, and Metso), transportation services (KONE) and design (littala and Marimekko).

More information:

visitfinland.com

FINLAND FACTS

Capital:

Helsinki

Official languages:

Finnish and Swedish

Population:

5.5 million

Government:

Parliamentary democracy

Currency:

Euro (€)



COST OF LIVING IN FINLAND

Finland is known for its high standard of living, which means that the country is not the cheapest one in the world. However, the cost of living in Finland is about the same as in other EU countries. Expenses vary depending on the accommodation you choose and your personal spending habits.

In Lappeenranta and Lahti, living expenses including accommodation in a student apartment may amount to roughly EUR 700/month.

As a degree student in Finland, you will be issued a student card that entitles you to student discounts on meals and other services (e.g. transport, museums, cultural events and recreational activities).

A few approximate examples of prices:

- >> Student lunch at the university EUR 1.80-4.60
- >> Single bus ticket EUR 1.60
- >> Monthly bus pass EUR 42
- Coffee at a café EUR 3
- Beer at a bar EUR 5-9
- » Movie ticket EUR 15

FINLAND IS

- » the safest place in the world.
- the top OECD country in education.
- the most advanced country in the EU in the utilisation of digitalisation.
- » the second largest in the EU in the share of renewable energy in the country's total energy consumption.
- the fourth most gender equal country.
- the third most innovative country.
- >> the happiest country.
- >> the country with the cleanest air.
- >> the water richest country.
- >> the most stable country.



LUT University's Study Services helps you to achieve academic success by offering a number of different student support services.

ORIENTATION DAYS

Taking your first steps as a new student in a foreign country can be overwhelming and confusing: you are in a new environment and are facing a new culture and new way of learning. At LUT, we want to make sure you have all the information you need before starting your studies.

You will participate in an orientation at the end of August during which you will connect with your fellow classmates, immerse yourself in this new experience, and get to know your new surroundings and the resources available to you. The orientation is a series of introductory events, orientation activities, city tours and information sessions held before the start of the semester.

TUTORING SERVICES

All new students at LUT are assigned a student tutor. The tutor will help you to settle in, find your way around the campus and the city and make you feel a little more at home.

STUDY GUIDANCE

Making a study plan and keeping up with it is important. Our study counsellors and study advisors will help and guide you in matters related to your studies.

CAREER SERVICES

Preparing for a successful professional career starts from your first weeks at the university. LUT Career Services will advise and guide you on the path towards your career goals.

LUT Career Services will help you on your professional development journey starting from your resume, cover letter, LinkedIn profile and interview techniques. The university will also host recruitment fairs for companies to provide you the best possible setting for networking.



LAPPEENRANTA

CAMPUS AND ACCOMMODATION

LUT University's green and modern campus in Lappeenranta is located in the district of Skinnarila.

CAMPUS

The campus offers a compact combination of all of the services students need.

Most student apartments are located within walking distance, and the university offers everything from laboratories to library services and from restaurants to health care – literally under one roof. On the campus, students have round-the-clock access to the university's facilities, including the J. Hyneman Center for rapid prototyping.

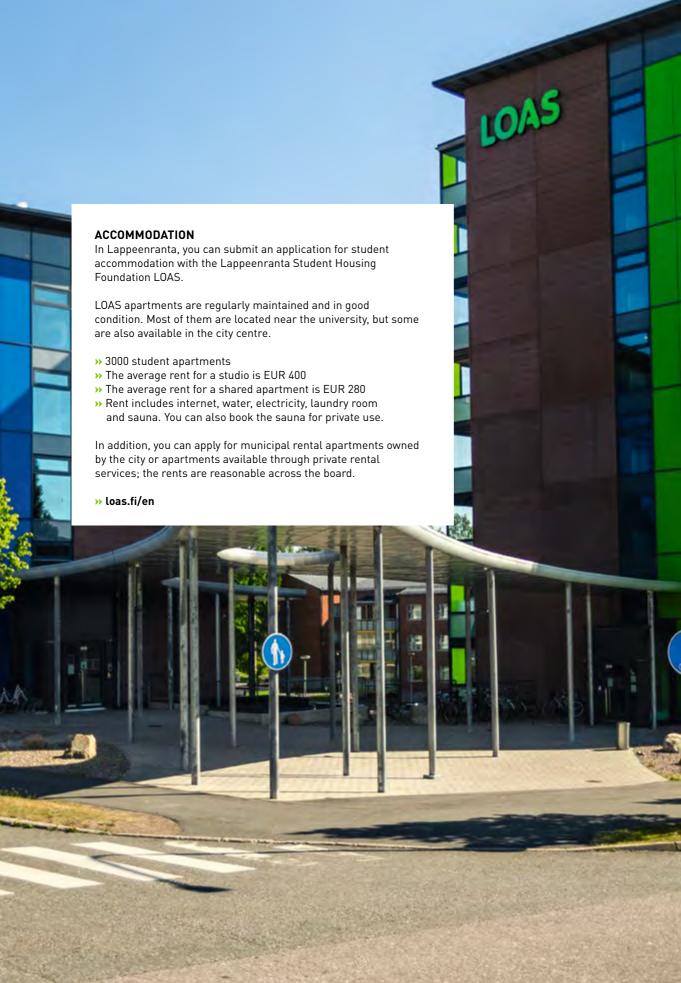
The campus is roughly seven kilometres from the city centre, and buses run every 15 minutes. Lappeenranta is within easy distance of major cities: the train ride to Helsinki takes only two hours, and Lappeenranta has an international airport with year-round direct flights to European destinations.

Skinnarila has excellent sports and recreational venues. The campus houses several gyms, and group fitness classes are available almost daily. Moreover, Lake Saimaa and its surroundings provide ample opportunities for outdoor activities.

Five lunch restaurants on campus offer student discounts. In addition, there is a café and convenience store. A wider variety of coffee houses and restaurants is available in the city centre.

The City of Lappeenranta shares our vision on sustainability. The city is continuously developing renewable energy and green technology solutions for urban living. Lappeenranta has a population of 73 000, and one in ten is a student.





LAHTI

CAMPUS AND ACCOMMODATION

Our new Lahti campus is located in the district of Niemi, three kilometres from the centre of Lahti.

CAMPUS

The campus is a modern learning environment built in an old factory. Mixing the old and the new provides a unique and inspiring setting for learning and work. The facilities are available to students 24/7.

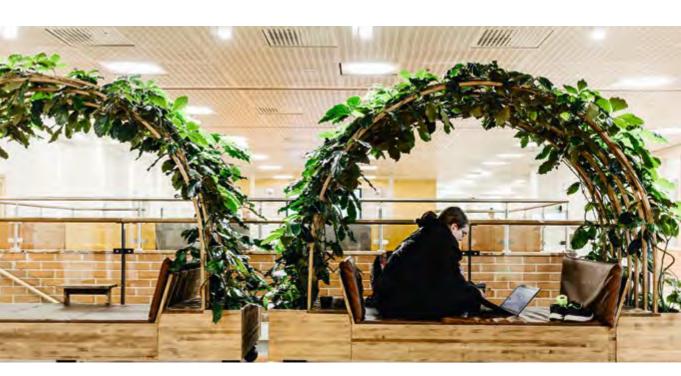
The campus provides students with everything they need: lunch restaurants, sports facilities and round-the-clock hangouts and places to study. The sports facilities include spaces for group workout classes, a gym, and designated areas and equipment in the courtyard. After a workout, you can relax in the public sauna on campus.

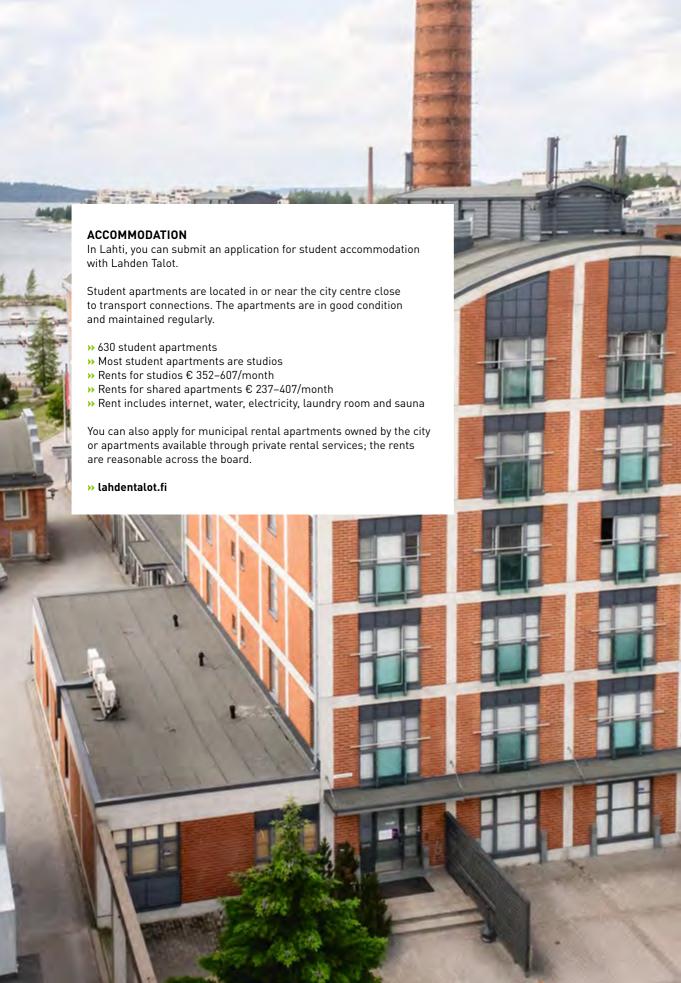
In addition to inexpensive restaurants, the campus has an ice cream bar and a student-owned cocktail bar.

Lahti has a population of 120 000 and is one of Finland's largest cities. It is a place where urban culture and wide-ranging services meet a small-town atmosphere, short commutes and closeness to nature.

Lahti is within easy access: Helsinki and Lappeenranta are only an hour away.

Lahti received the European Green Capital Award for 2021. The city aims to be the most businessfriendly and sustainable growth centre in Finland.





BACHELOR'S STUDIES

At LUT, you can choose from a total of five Bachelor's programmes in technology in English: four double degree programmes and one regular degree programme.

BACHELOR'S PROGRAMMES IN ENGLISH:

- »Electrical Engineering (double degree)
- »Energy Technology (double degree)
- »Mechanical Engineering (double degree)
- »Software and Systems Engineering (double degree)
- »Technology and Engineering Science

In each Bachelor's programme, you will graduate within three academic years with a unique skill set that meets the current demands of industry and technology. Each programme is 180 ECTS credits (1 ECTS credit = 26 hours of work related to the course; includes in-class lectures, out-of-class assignments, preparation for the exam, exam). After completing the programme, you will earn the degree of Bachelor of Science in Technology, B.Sc. (Tech.).

After completing the Bachelor's degree at LUT, you are entitled to continue your studies at the Master's level at LUT in your chosen field of specialisation.

Double degree programmes

The double degree programmes Electrical Engineering, Energy Technology, Mechanical Engineering and Software and Systems Engineering are arranged in cooperation with Hebei University of Technology (HEBUT), China.

All students accepted into these four programmes will receive two degree certificates after they have fulfilled the degree requirements of both universities, LUT and HEBUT. Students complete the entire degree in Finland, in either Lappeenranta or Lahti.

How to apply

Start the application process by acquainting yourself with the programmes available and choosing the one that is most suitable for you. **lut.fi/bachelors**

Complete the online application form during the application period and submit the required documents. **studyinfo.fi**

When to apply

Regular application period: **7–20 January 2021**. Studies start at the end of August 2021.

Eligibility

Upper secondary degree and SAT. Minimum SAT requirements: evidence-based reading and writing section 480, and math section 500. Separate language test not required.

Alternatively, you can apply without SAT scores if you have an upper secondary degree and the Finnish Matriculation Examination, International Baccalaureate, European Baccalaureate or Reifeprüfung.

Tuition fees

The tuition fee for non-EU/EEA citizens (excluding citizens of Switzerland):

- Technology and Engineering Science, EUR 9 500/academic year
- » Double degree programmes, EUR 9 000/academic year

Scholarships

The scholarship schemes in Technology and Engineering Science and double degree programmes differ. However, scholarships are available for all programmes starting from the second academic year.

» lut.fi/bachelors



Become an expert in electrical engineering in the global energy transition towards sustainability.

- » Search for solutions related to renewable energy, electrical machines, automation and control engineering.
- » Play a key role in mitigating climate change and reforming modern society.
- Examine the production, transmission, distribution and use of electricity.

After completing this programme, you will be entitled to continue your studies in the Master's programme in *Electrical Engineering* at LUT.

Programme content

- » General studies, 79 ECTS credits mathematics, physics, engineering design, mechanics, control systems, programming and electricity
- » Intermediate specialisation studies, 49 ECTS credits power systems, electrical drives, electrical circuits, digital design, digital control, IoT, electronics, electrical safety
- » Minor studies, 20 ECTS credits energy economics, sustainability science, innovation and entrepreneurship, and Chinese business, culture and technology
- Language studies, 19 ECTS credits Chinese, Finnish and English
- » Elective studies, 3 ECTS credits any course at LUT
- » Bachelor's thesis, 10 ECTS credits

LUT and HEBUT, Bachelor of Science in Technology **Duration:** 3 years **Language:** English **Credits:** 180 ECTS credits **Campus:** Lappeenranta **Tuition fee:** EUR 9 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens.

Scholarships: available from

Degree: Double degree from

the second year

After graduation:

- >> Technology manager
- Testing and automation engineer
- >> Electricity grid designer
- >> Production development
- >> Electricity company manager

Read more:

lut.fi/bsc-elec-eng





Find future technological solutions for safe, economical and sustainable energy.

- Find out how to convert natural energy resources such as water, wind or biomass into sustainable energy for human consumption as efficiently as possible.
- >> Examine the production, transmission, distribution and use of energy.
- Assess how energy production affects the environment, the economy and society.

After completing this programme, you will be entitled to continue your studies in one of LUT's three Master's programmes in energy technology: *Bioenergy Systems, Energy Conversion* or *Nuclear Engineering*.

Programme content

- Seneral studies, 77 ECTS credits mathematics, physics, engineering design, mechanics, control systems, programming and electricity
- » Intermediate specialisation studies, 51 ECTS credits thermodynamics, heat transfer, nuclear power engineering, power plant engineering and energy economics
- » Minor studies, 20 ECTS credits energy economics, sustainability science, innovation and entrepreneurship, and Chinese business, culture and technology
- Language studies, 19 ECTS credits Chinese, Finnish and English
- » Elective studies, 3 ECTS credits any course at LUT
- » Bachelor's thesis, 10 ECTS credits

Degree: Double degree from LUT and HEBUT, Bachelor of Science in Technology

Duration: 3 years **Language:** English **Credits:** 180 ECTS credits

Campus: Lahti

Tuition fee: EUR 9 000/year for non-EU/EEA citizens.

No fee for EU/EEA citizens. **Scholarships:** available from

the second year

After graduation:

- >> Power plant manager
- >> Nuclear reactor engineer
- >> Biomass boiler developer
- Solar and wind energy technical planner
- >> Energy consultant

Read more:

lut.fi/bsc-energy-tech





Learn to design a product taking into account the entire product life cycle and circular economy.

- Examine the modern design and manufacturing processes of a variety of consumer goods.
- >> Utilise both digital and virtual design environments.
- » Explore the cutting edge of metal structure design, robotic welding and mechatronics.

After completing this programme, you will be entitled to continue your studies in one of LUT's two Master's programmes in mechanical engineering: *Industrial Design Engineering* or *Mechanical Engineering*.

Programme content

- » General studies, 88 ECTS credits mathematics, physics, engineering design, mechanics, materials, control systems and programming
- » Intermediate specialisation studies, 40 ECTS credits mechatronics, robotics, production engineering, FE analysis, machine design and manufacturing
- » Minor studies, 20 ECTS credits energy economics, sustainability science, Chinese business, culture and technology
- » Language studies, 19 ECTS credits Chinese, Finnish and English
- » Elective studies, 3 ECTS credits any course at LUT
- » Bachelor's thesis, 10 ECTS credits

Degree: Double degree from LUT and HEBUT, Bachelor of Science in Technology Duration: 3 years Language: English Credits: 180 ECTS credits Campus: Lappeenranta Tuition fee: EUR 9 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available from the second year

After graduation:

- >> Virtual designer
- >> Design manager
- >> Production manager
- >> Quality control manager
- >> Welding and metal industry

Read more:

lut.fi/bsc-mechanical-eng





Learn to solve great societal challenges with programming.

- » Solve societal challenges related to digitalisation, reducing energy consumption, the research and development needs of the business world, or guiding consumer behaviour towards sustainable development.
- » Solve a societal or organisational problem by introducing a new software service, product or system to assist or inform people.
- » Make things faster, less expensive and more efficient in the future.

After completing this programme, you will be entitled to continue your studies in one of LUT's two Master's programmes in software engineering: Software Engineering and Digital Transformation or Software Product Management and Business.

Programme content

- » General studies, 44 ECTS credits engineering physics, C programming, technical documentation and 3D modelling, introduction to IoT-based systems
- » Intermediate specialisation studies, 85 ECTS credits computer science, discrete models and methods, data structures and algorithms, computer networks, cybersecurity of software systems
- » Minor studies, 20 ECTS credits sustainability science, practical engineering, innovation and entrepreneurship, technology in China
- >> Language studies, 19 ECTS credits Chinese, Finnish and English
- Elective studies, 2 ECTS credits any course at LUT
- » Bachelor's thesis, 10 ECTS credits

Degree: Double degree from LUT and HEBUT, Bachelor of Science in Technology

Duration: 3 years **Language:** English **Credits:** 180 ECTS credits

Campus: Lahti

Tuition fee: EUR 9 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available from

the second year

After graduation:

- >> Software developer
- >> Software architect
- >> Requirements engineer
- >> Database administrator
- >> User experience specialist
- Senior software developerSoftware product manager

Read more:

lut.fi/bsc-software-eng





Become an expert in multidisciplinary fields of engineering.

- >> Search for innovative solutions to global sustainability challenges.
- >> Find new ways to use materials to prevent social and environmental harms.
- » Integrate studies in mechanical engineering, electrical engineering, energy technology and environmental technology.

After completing this programme, you are entitled to continue your studies at the Master's level in your chosen area of specialisation.

Programme content

» General studies, 101 ECTS credits

engineering mathematics and physics, engineering mechanics, engineering thermodynamics, 3D modelling and technical documentation, business and sustainability

>> Intermediate specialisation studies, 49 ECTS credits

In the second year, you will specialise in one of four fields. Each specialisation includes an internship either in Finland or abroad. *Electrical engineering:* laboratory course, introduction to embedded systems, mechatronics.

Energy technology: machines and processes in energy technology, power plant engineering, life cycle assessment.

Environmental technology: sustainable system transition, environmental labelling, life cycle assessment.

Mechanical engineering: mechatronics, FE analysis,

Mechanical engineering: mechatronics, FE analysis, engineering mechanics.

- » Language and communication studies, 15 ECTS credits
- >> Elective studies. 5 ECTS credits, any courses at LUT
- » Bachelor's thesis, 10 ECTS credits

Degree: Bachelor of Science

in Technology **Duration:** 3 years **Language:** English **Credits:** 180 ECTS credits **Campus:** Lappeenranta

Tuition fee: EUR 9 500/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available from

the second year

After graduation:

- >> Emissions expert
- >> Sustainability specialist
- Testing and automation engineer
- >> Electricity grid specialist

Read more:

lut.fi/bsc-tech-eng



STUDENT EXPERIENCES

UMAIR'S STORY

Ever since high school, I have always wanted to study abroad, but as someone who didn't have the privilege to visit any university abroad in person before starting studies, I never thought I would end up studying at LUT. In fact, I did not even know LUT until I was registering for admission and did a little research. After my first year, I would say this is one of the best choices I have made in my life!

The Finnish education system is known to be one of the best in the world, and LUT has proved that many times. The studies are well organised and inspiring, and the teachers are very helpful and approachable. You can always meet with them to discuss something you did not understand in class. You also have a tutor who will help you during the first days of your stay with everything you need to know about the university and everyday practicalities, making the transition to a new place less daunting.

Technology and Engineering Science has four different specialisations that you can choose from after completing your compulsory courses in the

first year; there is something for almost everybody. I chose the Electrical Engineering path, as it was the most interesting subject for me out of those four. The programme also emphasises green technology and sustainability, so if you are interested in those areas, this is the place to be. The facilities are great and provide everything you need to complement your study experience.

Lappeenranta is an amazing place to study. The campus is surrounded by nature so you can always take a walk outside after an exhausting lecture, take a much-needed break and enjoy the beautiful scenery of Lake Saimaa. In addition, you have many recreational opportunities through student clubs.

The student life here is vibrant. One feature that I found unique here is the guilds. They have some of the coolest events and activities in town and will definitely enrich your student experience. Of course the guild "uniform" – the overalls and the legendary white cap – are something cool that you can show off to your friends!



After my first year, I would say this is one of the best choices I have made in my life!

Umair Raihan, Indonesia Bachelor's student, Technology an<u>d Engineering Science</u>

MASTER'S STUDIES

At LUT, you can choose from 22 technology or business Master's programmes in English. The programmes are mainly full-time, but we also offer two flexible distance learning programmes.

In each Master's programme, you will graduate within two academic years with a unique skill set that meets the demands of industry and business. Each programme is 120 ECTS credits: 90 ECTS credits for courses and 30 ECTS credits for a final thesis (1 ECTS credit = 26 hours of work related to the course; includes in-class lectures, out-of-class assignments, preparation for the exam, exam).

After completing the programme, you will earn a Master's degree in either technology, M.Sc. (Tech.), or business administration, M.Sc. (Econ. & Bus. Adm.).

How to apply

Start the application process by familiarising yourself with the programmes available and choosing the one that is most suitable for you.

lut.fi/masters

REGULAR ADMISSION: Complete the online application form during the application period and submit the required documents. studyinfo.fi

ROLLING ADMISSION: Complete the online application form during the application period and submit the required documents. The application period will close when all student places are filled but no later than 31 May 2021. studyinfo.fi.

When

Regular admission: 1 December 2020–20 January 2021. Rolling admission: 1 November 2020–31 May 2021. Studies start at the end of August 2021.

Eligibility

REGULAR ADMISSION: Suitable Bachelor's degree, verified English language test.
ROLLING ADMISSION:

Business programmes: suitable Bachelor's degree, GMAT/GRE test, verified English language test.

Technology programmes: suitable Bachelor's degree, min. GPA requirement + possible interview, verified English language test.

Additionally, each programme has its own specific requirements. See the programmes' web pages for details.

Minimum language test requirements in all Master's programmes: TOEFL Academic 80 iBT, IELTS Academic 6.0, PTE Academic 54, C1 Advanced by Cambridge English Qualifications grade C, C2 Proficiency by Cambridge English Qualifications grade C. lut.fi/masters

Tuition fees and scholarships

The tuition fee for non-EU/EEA citizens (excluding citizens of Switzerland) is EUR 10 000 in all Master's programmes. Scholarships are available in most programmes starting from the first academic year in regular admission and from the second academic year in rolling admission. lut.fi/scholarships

MASTER'S PROGRAMMES

Chemical Engineering

- » Biorefineries
- » Chemical Engineering
- >> Water Technology

Computational Engineering

- » Business Analytics
- >> Data-Centric Engineering
- >> Technical Physics

Electrical Engineering

» Electrical Engineering

Energy Technology

- » Bioenergy Systems
- >> Energy Conversion
- >> Nuclear Engineering

Environmental Technology

- » Sustainability Science and Solutions
- >> Circular Economy

Industrial Engineering and Management

Slobal Management of Innovation and Technology

Mechanical Engineering

- >> Industrial Design Engineering
- >> Mechanical Engineering

Software Engineering

- >> Software Engineering and Digital Transformation
- >> Software Product Management and Business

Business Administration

- >> Business Analytics
- >> International Business and Entrepreneurship
- >> International Marketing Management
- » Strategic Finance and Analytics
- » Supply Management



Learn new approaches to mitigate climate change and save scarce natural resources.

- Acquire skills in designing, planning, assessing and operating sustainable, environmentally friendly biorefining processes and products.
- » Specialise in modern and current biorefining technology, products and raw materials.
- Learn to use renewable raw materials where technically and economically feasible.

This is a **distance learning programme** that includes some classroom sessions on campus.

Programme content

- » Core studies, 13 ECTS credits research methodology, technology and society
- Advanced specialisation studies, 38-65 ECTS credits Compulsory studies: advanced biorefineries, solid-liquid separation, bio-based materials and advanced organic chemistry, bioeconomy Alternative studies: environmental and industrial analytics, membrane technology, advanced water treatment, biological wastewater treatment
- » Minor studies, 20-25 ECTS credits energy technology, business, circular economy
- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

Degree: Master of Science in Technology

Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available from

the second year

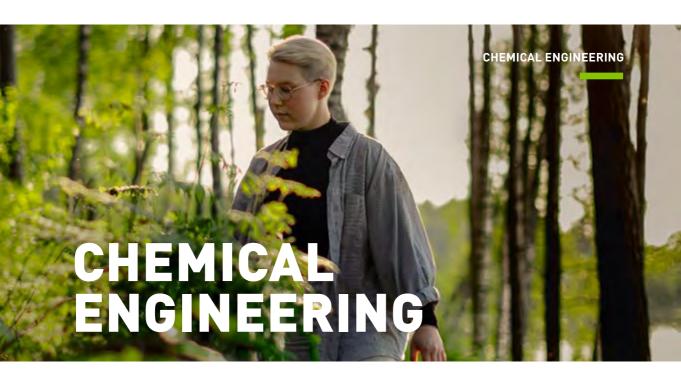
After graduation:

- » New product developer
- Trouble shooting in production processes
- >> Production manager
- Process developer and designer

Read more:

lut.fi/biorefineries





Learn new approaches to mitigate climate change and save scarce natural resources.

- » Acquire skills to design cost and energy efficient chemical processes taking into account the current demands for circular economy, a clean environment, the chemical conversion of renewable energy (PtoX), and the sustainable use of natural resources.
- Transform chemical engineering into a publicly accepted and environmentally benign discipline that uses natural resources rationally, minimises process waste, and circulates waste back to products.
- » Learn to design chemical and biochemical processes and equipment in team projects.

The programme has a EUR-ACE label and ASIIN accreditation.

Programme content

- Core studies, 9 ECTS credits laboratory safety, research methodology
- » Advanced specialisation studies, 35-65 ECTS credits unit operations, fluid dynamics, advanced process simulation, product and process design, bioenergy, biorefineries, circular economy for materials processing, and bioenergy technology solutions
- » Minor studies, 0-30 ECTS credits bio-based chemical engineering, advanced water treatment, advanced chemistry
- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

Degree: Master of Science in Technology

Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

After graduation:

- >> Process engineer
- >> Production engineer
- >> Design engineer
- >> Process chemist
- >> Marketing engineer
- >> Production manager

Read more:

lut.fi/chemical-eng





Focus on sustainable water treatment and water reuse.

- » Become an expert in novel, sustainable materials and technologies for water treatment.
- » Learn about water treatment technologies, e.g. water purification, advanced oxidation processes, and various separation methods.
- >> Get the latest information about chemical engineering in water treatment.

This is a **flexible, blended learning programme** that includes some classroom sessions on campus.

The programme has a EUR-ACE label and ASIIN accreditation.

Programme content

- Core studies, 9 ECTS credits laboratory safety, research methodology
- » Advanced specialisation studies, 46-56 ECTS credits Compulsory studies: sustainable water technology, water treatment technologies, sustainable water use Alternative studies: solid-liquid separation, precipitation, crystallisation, coagulation and flotation methods in water treatment, membrane technology, biological wastewater treatment, environmental and industrial analytics, advanced materials in adsorption and ion exchange
- » Minor studies, 0-30 ECTS credits advanced process engineering, bio-based chemical engineering and advanced chemistry
- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

Degree: Master of Science in

Technology
Duration: 2 years
Language: English
Credits: 120 ECTS credits
Campus: Lappeenranta
Tuition fee: EUR 10 000/year
for non-EU/EEA citizens.
No fee for EU/EEA citizens.
Scholarships: available

After graduation:

- Research and development specialist
- >> Water treatment plant manager
- >> Water treatment specialist
- >> Environmental specialist
- >> Research scientist

Read more:

lut.fi/water-tech



STUDENT EXPERIENCES

ANASTASIIA'S STORY

I came to Finland all the way from Siberia; I've always wanted to study abroad for a while. I started my Master's studies in one of Saint Petersburg's universities and came here to LUT through a double degree programme.

When my studies at LUT started, I had no background in water treatment, which made my studies a lot harder. I sometimes still felt that I lacked some basic knowledge. But here's the trick: if you really like doing something, nothing can stop you from learning more

Being a student here was great. I remember days and even weeks when I only came back home to sleep because this university really became my second home, and I didn't want to leave even when I was done with my deadlines.

I didn't plan to stay in Finland for long, but one thing led to another and I wound up staying.

First, I took a course on membrane technology and met inspiring researchers professionals. Then, I got an amazingly interesting thesis topic from them, and after that (even before I graduated), they asked me to stay and work in their research group.

The fact that it all happened within one year brings me back to my favourite quote from Seneca: "Fate leads the willing and drags along the reluctant". Even though LUT was the third university I studied in, it's the only one I finally wanted to call my alma mater. It's filled with curiosity and freedom, and it really helps me to learn something new every day—whatever I want it to be.



This place is filled with curiosity and freedom, and it really helps me to learn something new every day.

Anastasiia Lopatina, Russia Master's student, Chemical Engineering and Water Treatment



Learn to use business analytics methods and software in practice.

- » Learn to use business analytics methods to make rapid, precise and profitable professional decisions.
- » Acquire skills in relevant business analytics methods, such as data analytics, artificial intelligence based methods, modelling and simulation.
- » Get practical know-how on methods involving real-world data in an industrial context.

Degree: Master of Science in

Technology

Duration: 2 years

Language: English Credits: 120 ECTS credits

Campus: Lappeenranta

Tuition fee: EUR 10 000/year

for non-EU/EEA citizens.

No fee for EU/EEA citizens.

Scholarships: available

Programme content

Core studies, 34 ECTS credits

fundamentals of business analytics and IT in business, management science, analytics tools

» Advanced specialisation studies, 56 ECTS credits

business analytics methods in a practical context, advanced data analytics, business intelligence, artificial intelligence based data analytics methods and data mining

» Master's thesis, 30 ECTS credits

After graduation:

- >> Business analyst
- » Business intelligence developer
- Data scientist
- >> Data engineer
- >> Operations manager
- >> Production manager

Read more:

lut.fi/ba-engineering





Become an expert in data-driven engineering and science.

- Gain deep understanding of data-centric engineering and uncertainty quantification or computer vision and pattern recognition.
- >> Understand physical phenomena and solve industrial and socioeconomic problems cost-efficiently using computational tools.
- Specialise in simulating complex systems and improving their functionality, or in creating algorithms transforming big data into knowledge.

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta

Tuition fee: EUR 10 000/year for

non-EU/EEA citizens.
No fee for EU/EEA citizens.
Scholarships: available

Programme content

» Advanced specialisation studies in one of two fields, 53 ECTS credits

Applied mathematics: modelling and simulation systems, inverse problems, intelligent data analysis and uncertainty quantification, computational fluid dynamics

Computer vision and pattern recognition: computer vision and machine vision, pattern recognition and data analytics based on machine learning, digital imaging, image processing and analysis

» Minor studies, 20-24 ECTS credits

renewable energy and energy efficiency, digitalisation and business analytics, software engineering and digital transformation, industrial engineering and management, international business management

- » Elective studies, credits to complete the degree any disciplines at LUT, incl. business and management studies
- » Master's thesis, 30 ECTS credits

After graduation:

- » Data architect
- Simulation engineer for renewable energy solutions
- Designer of computer vision and pattern recognition systems
- Solution specialist for datacentric application development

Read more:

lut.fi/data-centric-eng





Study physics tailored especially for applied, industrial and medical research.

- » Accelerate the pace of technology transfer and innovation by taking advantage of technological paradigm shifts in physics.
- Strengthen problem solving skills that are valuable in areas beyond physics, such as energy, environmental/health issues, communication and information technology.
- » Benefit from LUT's extensive cooperation with international research centres such as CERN, universities, laboratories and industries in Europe, Russia, the USA and Japan.

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens.

Scholarships: available

Programme content

- » Advanced specialisation studies, 53 ECTS credits properties of condensed matter, including semiconductors, superconductors, functional magnetic materials and nanostructures; microelectronics, optoelectronics, spintronics, magnetocaloric and quantum technologies
- » Minor studies, 20-24 ECTS credits electrical engineering, industrial engineering and management, renewable energy and energy efficiency, software engineering and digital transformation
- » Elective studies, credits to complete the degree any disciplines at LUT, incl. business and management studies
- » Master's thesis, 30 ECTS credits

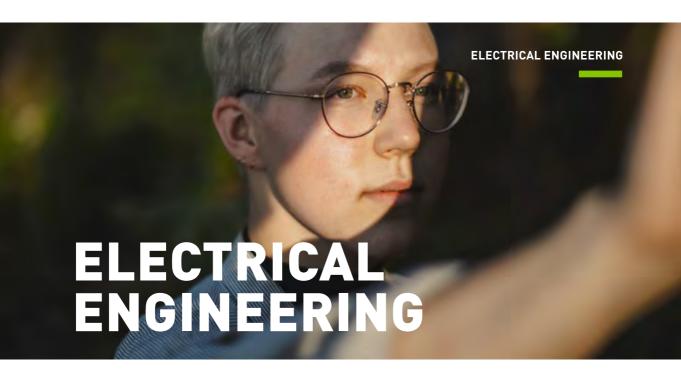
After graduation:

- >> Researcher at CERN
- Doctoral candidate in a research institute
- Research and development engineer
- » Materials engineer

Read more:

lut.fi/technical-physics





Learn to use energy efficiently for a sustainable future.

- Specialise in conversion, the use and control of electric systems, and solar economy.
- Learn to apply theories of electrical engineering to practical electrotechnical applications.
- Find out how to use energy efficiently in a sustainable, industrial and consumer-oriented economy.

The programme has a EUR-ACE label and ASIIN accreditation.

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens.

No fee for EU/EEA citizens. **Scholarships:** available

Programme content

>> Core studies, 29 ECTS credits

technology and society, energy efficiency, laboratories, internship, power electronic converters, applied mathematics

» Advanced specialisation studies, 40-65 ECTS credits, select one of the following

solar economy, control and automation, control and communication, electromechanics, electrical drives or power electronic design

- » Minor studies, 0-23 ECTS credits bioenergy technology, environmental responsibility
- » Elective studies, credits to complete the degree select from any disciplines at LUT, incl. language courses
- » Master's thesis, 30 ECTS credits

After graduation:

- >> Chief technology officer (CTO)
- >> Test engineer
- >> Automation engineer
- >> Production development manager
- » Sales manager
- >> Design engineer

Read more:

lut.fi/electrical-eng





Learn how to utilise sustainable and feasible bioenergy.

- >> Learn to study and design small-scale bioenergy systems.
- » Understand the benefits and drawbacks of different bioenergy generation technologies.
- » Apply and develop mathematical models to solve energy technology problems.

The programme has a EUR-ACE label and ASIIN accreditation.

Programme content

- » Core studies, 26 ECTS credits bioenergy, technology and society, energy economics, applied mathematics
- » Advanced specialisation studies, 42-65 ECTS credits Compulsory studies: energy systems engineering, bioenergy technology solutions, energy economics, steam boilers, fluid machinery, power plant design Alternative studies: district heating, advanced modelling of transport phenomena, energy scenarios, steam turbines, renewable energy technology, design of fluid machinery
- » Minor studies, 0-32 ECTS credits environmental responsibility, modelling of energy systems, bio-based chemical engineering
- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

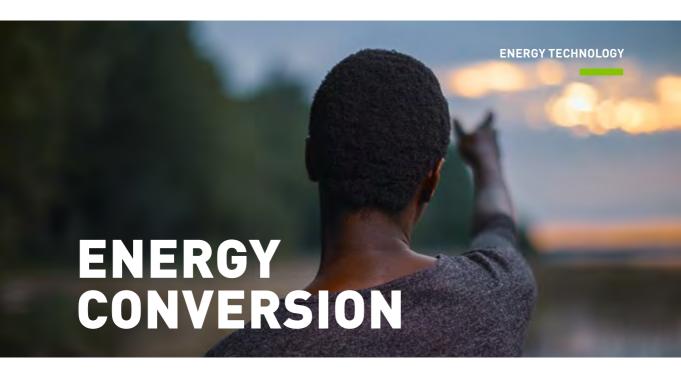
After graduation:

- » R&D engineer
- >> Energy specialist in consulting
- » Managerial positions in energy production
- Sales manager in the energy equipment industry
- » Senior design engineer

Read more:

lut.fi/bioenergy-systems





Learn to understand different aspects of energy production and conversion.

- » Learn to analyse, design and select technologically, economically, environmentally and societally relevant energy conversion processes for different applications.
- Apply and develop mathematical models to solve energy-related challenges.
- » Design energy systems for a sustainable future.

The programme has a EUR-ACE label and ASIIN accreditation.

Programme content

» Core studies, 22 ECTS credits

technology and society, maintenance management, power plant design, applied mathematics

» Advanced specialisation studies, 42-65 ECTS credits

Compulsory studies: steam turbines, fluid machinery, design of fluid machinery, thermal design of steam boilers, advanced modelling tools for transport phenomena, advanced topics in the modelling of energy systems, steam boilers

Alternative studies: bioenergy and energy use in the forest industry, turbulence models, computational fluid dynamics, energy economics, renewable energy technology, nuclear power plant engineering

» Minor studies, 0-30 ECTS credits

environmental responsibility, renewable energy and energy efficiency, bio-based chemical engineering

- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

Degree: Master of
Science in Technology
Duration: 2 years
Language: English
Credits: 120 ECTS credits
Campus: Lappeenranta
Tuition fee: EUR 10 000/year
for non-EU/EEA citizens.
No fee for EU/EEA citizens.
Scholarships: available

After graduation:

- » R&D engineer
- Energy specialist in consulting
- Managerial positions in energy production
- Sales manager in the energy equipment industry
- >> Senior design engineer

Read more:

lut.fi/energy-conversion





Learn how to utilise nuclear power safely.

- » Learn to understand how different energy technology related equipment, plants, processes and systems relate to nuclear energy.
- >> Understand the nuclear fuel cycle.
- >> Find out about protection against ionising radiation

The programme has a EUR-ACE label and ASIIN accreditation.

Programme content

» Core studies, 28 ECTS credits maintenance management, nuclear power plant engineering, technology and society, applied mathematics

Advanced specialisation studies, 42-65 ECTS credits Compulsory studies: nuclear reactor design, computational nuclear thermal hydraulics, nuclear reactor physics methods, nuclear reactor physics analyses, nuclear reactor dynamics, steam turbines, theoretical nuclear thermal hydraulics, experimental nuclear thermal hydraulics Alternative studies: energy systems engineering, steam boilers, energy scenarios, turbulence models, reliability engineering, computational fluid dynamics, energy economics

» Minor studies, 0-30 ECTS credits environmental responsibility, renewable energy and energy efficiency, modelling of energy systems, technomathematics, technical physics

- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

After graduation:

- >> Design engineer
- >> Reactor engineer
- >> Safety engineer
- >> Radiation protection engineer
- >> Researcher
- >> Nuclear plant director

Read more:

lut.fi/nuclear-eng



STUDENT EXPERIENCES

AAPO'S STORY

While completing my Bachelor's degree in environmental and energy technologies, I understood that nuclear energy is the only way to tackle the global climate crisis. Fortunately, we have a great place to study nuclear engineering in Finland: LUT University. At least this is what I heard from former students of LUT.

Naturally, it took me some time to get used to the university practices after my previous studies at a university of applied sciences. All the professors and lecturers were very helpful in the transition. I also ended up choosing way too many courses in addition to the mandatory ones, as the variety of choices was so wide. Even though it sometimes felt like I was spending too much time at the university, I guess most of it was just hanging out with the other students.

Right from the beginning, Lappeenranta felt very international. Even thought I had some existing local contacts, I still ended up spending the majority of my time at the university with international students. The student community was very welcoming, and it was easy to mix with the "older" students and become part of the group. Every time I had a

question, somebody was eager to help even if they did not actually have any idea about the task at hand.

Spring 2020 was pretty exceptional for everyone because of the global pandemic. This naturally affected the studies and posed some new challenges for the professors and students. The Lappeanranta campus transitioned to distance learning effortlessly and quickly, as most of the courses could already be carried out remotely.

Many people seem to think that nuclear engineering is very complicated and impossible to understand. I would say that anything concerning physics can be challenging, and in the end, nuclear power plants are just big water boilers.

After the first year in the Master's programme, I really look forward to the second year to see what new things I can learn about nuclear power from LUT's interesting and inspiring professionals. Meanwhile, I'll be working at a Finnish nuclear energy company creating simulations for radiation safety, using the methods I learned at LUT.



We have a great place to study nuclear engineering in Finland: LUT University

Aapo Tommila, Finland Master's student, Nuclear Engineering



Become an expert in improving resource efficiency to promote the circular economy.

- » Explore ways to keep materials and other resources at their highest value while minimising waste, energy use and emissions.
- Find out about innovative approaches to circularity, new technologies and systemic transitions.
- » Learn to create sustainable business models based on the principles of circular economy.

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits

Campus: Lahti
Tuition fee: EUR 10 000/year
for non-EU/EEA citizens.
No fee for EU/EEA citizens.

Scholarships: available

Programme content

» Core studies, 34 ECTS credits

basics of circular economy and grand sustainability challenges, food-energy-water nexus, interplay between technology and society

>> Advanced specialisation studies, 29 ECTS credits

deeper understanding of waste management technologies, traffic systems, different cycles in a circular economy, mechanisms enabling sectoral sustainability transitions

» Minor studies, 20-24 ECTS credits

energy technology, innovation and performance management, entrepreneurship, urban ecology, sustainability science

» Elective studies, credits to complete the degree

life-cycle assessment, pollution control, business and sustainability, materials processing

» Master's thesis, 30 ECTS credits

After graduation:

- >> Environmental consultant
- Sustainability specialist in product development
- >> Expert in urban planning
- Environmental officer for government/municipal authorities

Read more:

lut.fi/circular-economy





Find solutions to global environmental challenges through systems thinking.

- » Understand the broader context of environmental challenges to identify more sustainable solutions through life cycle assessment.
- » Recognise opportunities offered by new technological innovations to promote sustainable development.
- Solve environmental problems in a way that profits both business and the environment.

The programme has a EUR-ACE label and ASIIN accreditation.

Degree: Master of Science in

Technology

Duration: 2 years **Language:** English

Credits: 120 ECTS credits

Campus: Lappeenranta Tuition fee: EUR 10 000/year

for non-EU/EEA citizens. No

fee for EU/EEA citizens. **Scholarships:** available

Programme content

» Core studies, 38 ECTS credits

life cycle assessment, system transition, energy efficient environment, business and sustainability, renewable energy technology

» Advanced specialisation studies, 25 ECTS credits

air pollution control, sustainable water use, waste management technology, circular economy for materials processing

» Minor studies, 20-24 ECTS credits

renewable energy and energy efficiency, international business and management, bio-based chemical engineering, energy technology

>> Elective studies, credits to complete the degree

sustainability and IT, water treatment, sustainable strategy, energy in traffic systems

» Master's thesis, 30 ECTS credits

After graduation:

- >> Environmental specialist
- » Emissions specialist
- >> Sustainability specialist
- >> Environmental authority
- Environmental and safety specialist in industry

Read more:

lut.fi/sustainability-science





Understand the impact of global megatrends on innovation management in firms.

- Find out ways to transform ideas into innovations and business value.
- » Learn to work in an international, constantly changing and networked environment.
- Explore the future challenges of industry and learn to cope with them.

The programme has ASIIN accreditation.

Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens.

Degree: Master of

Duration: 2 years

Science in Technology

Scholarships: available

Programme content

» Core studies, 31 ECTS credits

strategic technology and innovation management, strategic entrepreneurship in an age of uncertainty, research methodologies and product development

- Advanced specialisation studies, 35 ECTS credits creative design and problem solving, inventive design and advanced TRIZ, open innovation
- » Minor studies, 24 ECTS credits, select from bioenergy technology, environmental responsibility, software engineering, circular economy, embedded systems and communication, advanced material engineering, mechanical engineering, chemical and process engineering
- » Elective studies, credits to complete the degree any disciplines at LUT
- » Master's thesis, 30 ECTS credits

After graduation:

- >> Product manager
- >> Development manager
- >> Business analyst
- >> Project manager
- Innovation consultant/ researcher

Read more:

lut.fi/gmit



STUDENT EXPERIENCES

MEICHUN'S STORY

I have never regretted coming here. I am glad that I chose to complete a Master's programme at LUT. I would say from my own experience: LUT is a university with high qualifications in all areas.

Teachers are very friendly and helpful to students. They are also very professional in their own field. I really appreciated that almost all the teachers I met at LUT teach and do research at the same time. I think it ensures that we students get fresh knowledge and insights at lectures.

Another thing I really liked was that the school collaborates with many different companies and you can benefit from it in studies, research and job hunting. The atmosphere at LUT is welcoming and

open; I feel I was accepted and respected as an international student.

Last but not least, the facilities are modern and offer everyone good places to study, eat and exercise.

If you are interested in green technology and sustainable development, LUT is your place. It doesn't matter whether your field is business or technology or somewhere in between.

My major subject is Global Management of Innovation and Technology – it belongs to industrial management. I took energy and business as my minor subjects, which have been very interesting.



I appreciate that almost all teachers at LUT teach and do research at the same time.

Meichun Wang, China Master's student, Global Management of Innovation and Technology



Become an expert in product development meeting demands of end users and the environment.

- Specialise in product development: a combination of product design, manufacturing processes, ergonomics, material development, aesthetics and sustainability.
- » Focus on the design and development of innovative products or production processes.
- » Utilise modern manufacturing technologies, design skills, and new materials through close cooperation with industries.

Degree: Master of Science in

Technology

Duration: 2 years **Language:** English

Credits: 120 ECTS credits

Campus: Lahti

Tuition fee: EUR 10 000/year for non-EU/EEA citizens.
No fee for EU/EEA citizens.
Scholarships: available from

the second year

Programme content

» Core studies, 32 ECTS credits

research methods, product design and production process, selection of materials, applied mathematics, additive manufacturing

» Advanced specialisation studies, 58 ECTS credits

sustainable design, ergonomics in design, interaction of products and consumers, productivity and sustainability in sheet metal production, design communication and visualisation, innovation in design, product design and production processes, structural and mechanical system design, forming and assembly for metal product design

» Master's thesis, 30 ECTS credits

After graduation:

- Industrial designer
- >> Design engineer
- >> Product designer
- >> Brand manager
- >> Production manager
- Interaction designer
- » Packaging designer
- >> Researcher

Read more:

lut.fi/industrial-design-eng





Become an expert in modern mechanical engineering.

- >> Learn to utilise fully digitised design, simulation and production environments in different areas of mechanical engineering.
- » Find out the special features of mechanical engineering design, IoT, the automatised and robotised production and manufacture of products, material selection, and modelling.
- >> Learn about computer-aided design technologies and technoeconomically efficient production methodologies integrated with the utilisation and development of advanced materials.

The programme has a EUR-ACE label and ASIIN accreditation.

Degree: Master of Science in Technology

Duration: 2 years Language: English

Credits: 120 ECTS credits

Campus: Lappeenranta

Tuition fee: EUR 10 000/year

for non-EU/EEA citizens. No fee for EU/EEA citizens.

Scholarships: available

Programme content

» Core studies, 35 ECTS credits

General studies: research methods, leadership and management Engineering studies: principles of manufacturing processes, reliability based design, material selection, simulation of mechatronic machines, engineering in a digitised environment

» Advanced specialisation studies, 50 ECTS credits, select two course packages from

digital engineering, robotics and mechatronics, laser processing and additive manufacturing, welding production and metallurgy, steel structures, composites and hybrid materials, industrial design engineering, sustainable manufacturing processes

» Elective studies, 5 ECTS credits Advanced mathematics, language studies

» Master's thesis 30 ECTS credits

After graduation:

- >> Production manager
- >> Production supervisor
- >> Design manager
- >> Automation specialist
- >> Quality manager
- >> Engineering specialist

Read more:

lut.fi/mechanical-eng





Master the digital ecosystems and digital business.

- » Become a leading developer of software and digital services and transform business processes.
- » Learn about software maintenance and the testing and fixing of software.
- >> Become an expert in software development and quality assurance.

The programme has a Euro-Inf® label and ASIIN accreditation.

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

Programme content

» Core studies, 31 ECTS credits

software engineering models and methods, requirements engineering, running a software project, research design methods

» Advanced specialisation studies in one of two fields, 35 ECTS credits

Software Engineering: software and system architectures, dataintensive software systems, software maintenance, quality assurance in software development

Digital Transformation: business process modelling, impact and benefits of digitalisation, digital business platforms, business intelligence and data mining, data-intensive systems

» Minor studies, 24 ECTS credits

industrial engineering and management, embedded systems and communications or international business and management

» Master's thesis, 30 ECTS credits

After graduation:

- >> Software developer
- >> Software architect
- >> User experience specialist
- >> Digital transformation consultant
- » Business intelligence manager
- » Database administrator
- Business service innovator
- » Digital transformer

Read more:

lut.fi/sedt





Become an expert in digital business and product development.

- Become a trailblazer in and a manager of software product and service development.
- » Learn about organising development work and managing software projects.
- >> Become an expert in software development and product management.

Degree: Master of Science in Technology Duration: 2 years Language: English Credits: 120 ECTS credits

Campus: Lahti
Tuition fee: EUR 10 000/year
for non-EU/EEA citizens.
No fee for EU/EEA citizens.
Scholarships: available from

the second year

Programme content

» Core studies, 31 ECTS credits

software engineering models and methods, requirements engineering, running a software project, research design methods

Advanced specialisation studies, 48 ECTS credits

Compulsory studies: software business and digital platforms, software innovation, process management Alternative studies: business process modelling, business intelligence and data mining, sustainability and IT, software maintenance, fundamentals of game development

- Elective studies, 11 ECTS credits any disciplines at LUT
- » Master's thesis, 30 ECTS credits

After graduation:

- >> Senior software developer
- >> Software product manager
- >> Product owner
- >> Business development director
- >> Software project manager

Read more:

lut.fi/spmb





Master the digital ecosystems and digital business.

- » Learn relevant business analytics methods, such as data analytics, modelling, and simulation.
- » Specialise in applied business research.
- >> Learn to apply methods to real-world data in a real-world business.

Degree: Master of Science in Economics and Business Administration

Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

Programme content

- » Core studies, 60 ECTS credits business analytics tools, econometrics and investment analysis, operations research, fundamentals of business analytics
- » Advanced specialisation studies, 24 ECTS credits business analytics tools and methods in a practical context, managerial decision making in a practical context, data analytics in economics
- Language studies, 6 ECTS credits in one foreign language (excl. English)
- » Master's thesis, 30 ECTS credits

After graduation:

- >> Business analyst
- » Business development specialist
- Business development manager
- >> Project manager
- >> Business controller

Read more:

lut.fi/ba-business





Become an expert in global marketing with strong marketing analytics skills.

- » Specialise in global marketing.
- » Enter the exciting and fast-paced world of strategic global marketing management, digital marketing and marketing analytics.
- >> Learn to apply different marketing tools and strategies in the context of international technology and knowledge-intensive markets.

The programme has EPAS accreditation from EFMD.

Programme content

» Core studies, 48 ECTS credits

Compulsory studies: global marketing, digital marketing, marketing analytics, B2B marketing, consumer behaviour in the age of digitalisation

Alternative studies: brand management, innovation management, responsible international business, marketing of high technology innovations

» Advanced specialisation studies, 12 ECTS credits strategic international marketing management, international entrepreneurship challenge

» Minor studies, 24 ECTS credits

sustainable business, digitalisation and business analytics, supply management, international business and entrepreneurship

>> Language studies, 6 ECTS credits courses at different levels (excl. English)

» Master's thesis, 30 ECTS credits

Degree: Master of Science in Economics and Business Administration

Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

After graduation:

- >> Marketing manager
- >> Marketing researcher
- >> Digital marketing manager
- >> Customer behaviour consultant
- Business development consultant
- >> Product and brand manager

Read more:

lut.fi/mimm





Learn to start a business and lead its growth to international markets.

- Specialise in global business and learn to consult for real companies and entrepreneurs about international strategies.
- » Manage a company's growth, strategy, finances and resources in international markets.
- » Understand global trade and internationalisation strategies of companies, and recognise and seize international opportunities.

Degree: Master of Science in Economics and Business Administration

Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

Programme content

» Core studies, 48 ECTS credits

Compulsory studies: global business environment, dimensions of entrepreneurship, strategies of business growth
Alternative studies: sustainable global sourcing, prototype project at J. Hyneman Center, responsible international business

» Advanced specialisation studies, 12 ECTS credits international entrepreneurship challenge, international business strategies

» Minor studies, 24 ECTS credits international marketing, sustainable business, digitalisation and business analytics, strategy and innovation

- » Language studies, 6 ECTS credits courses at different levels (excl. English)
- » Master's thesis, 30 ECTS credits

After graduation:

- >> Startup entrepreneur
- >> Export manager
- Subsidiary manager
- Director of international operations
- >> Internationalisation consultant

Read more:

lut.fi/mibe



STUDENT EXPERIENCES

ALEXANDER'S STORY

I moved to Lappeenranta with my wife and our children from San Diego, CA, to start the programme in August, 2019. Between the 20+ hours of travel through multiple connections, the transition from a desert climate to a lush northern forest, and moving from a big city to a small town, we literally and metaphorically came from about as far away as possible. While I consider myself an international person, I still had some uncertainty about the transition when I was applying.

I felt welcomed into the Lappeenranta community before I even arrived. Given our unusual family structure, we chose not to live in student housing. A member of the Lappeenranta community that I found on Facebook went above and beyond to help me find a landlord and secure a lease. The city and university have both made it very easy for us to establish ourselves here.

After I settled into my new life here in Lappeenranta, I could focus on my true passion and the purpose of my studies: entrepreneurship. I joined a research

project in the LUT School of Energy Systems as an entrepreneurship consultant after just a few months, a connection that was facilitated by the LUT Entrepreneurship Society. My primary task is to map out the entrepreneurial path for the project after the current grant ends and ensure that the engineering research being done supports this path. This required me to apply the entrepreneurship theory that I was exposed to during my first semester to the project. The Master's programme has thus been very flexible in terms of allowing me to advance academically while also growing professionally. The importance of this flexibility was amplified by the 2020 coronavirus pandemic.

Lappeenranta, LUT and the International Business and Entrepreneurship programme found a way to quickly integrate me and create the conditions for my family and me to thrive. I am somewhat of an outlier when it comes to the Master's student body with significantly more complicated needs than the average student. If I feel welcome here, so will you!



I felt welcomed into the Lappeenranta community before I even arrived.

Alexander Myers, USA Master's student, International Business and Entrepreneurship



Combine studies in financial management and analytics.

- » Specialise in financial management and the tools and techniques of business analytics.
- » Prepare for a career in forward-going businesses making fact-based decisions in a competitive business landscape.
- » Understand the main theories and concepts of finance and international financial markets and the use of information technology in business development and transformation.

Degree: Master of Science in Economics and Business Administration

Duration: 2 years Language: English Credits: 120 ECTS credits Campus: Lappeenranta Tuition fee: EUR 10 000/year for non-EU/EEA citizens. No fee for EU/EEA citizens. Scholarships: available

Programme content

» Core studies, 78 ECTS credits

Strategic finance: financial econometrics, financial risk management, banking and insurance finance, empirical research in finance

Analytics for finance: information systems in corporate management, investment and business analysis, analytics for business, marketing analytics

- Advanced specialisation studies, 6 ECTS credits real option analysis
- Language studies, 6 ECTS credits courses at different levels (excl. English)
- » Master's thesis, 30 ECTS credits

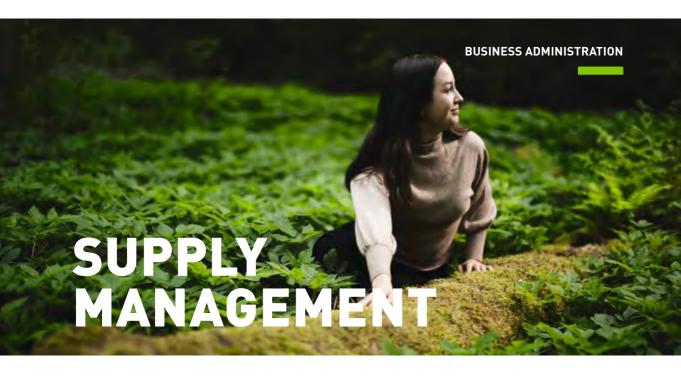
After graduation:

- >> Business controller
- >> Financial analyst
- >> Financial development manager
- >> Business development manager
- » Management consultant

Read more:

lut.fi/msf





Learn the principles of sustainable supply management.

- » Become a decision-maker in global supply networks.
- » Understand the importance of supply management in business and value creation.
- » Focus on supply strategies, global challenges of sourcing and the development of purchasing and supplier relationships.

Programme content

» Core studies, 42 ECTS credits

Compulsory studies: strategic supply management, financial supply management, sustainable global sourcing and supplier management, service business in a supply chain Alternative studies: global business environment, green logistics, B2B marketing

- » Advanced specialisation studies, 18 ECTS credits external resource management and value networks, risk management in supply chains, supply chain improvement
- » Minor studies, 24 ECTS credits international marketing, sustainable business, digitalisation and business analytics, international business and entrepreneurship
- >> Language studies, 6 ECTS credits courses at different levels (excl. English)
- » Master's thesis, 30 ECTS credits

Degree: Master of Science in Economics and Business Administration

Duration: 2 years
Language: English
Credits: 120 ECTS credits
Campus: Lappeenranta
Tuition fee: EUR 10 000/year
for non-EU/EEA citizens.
No fee for EU/EEA citizens.
Scholarships: available

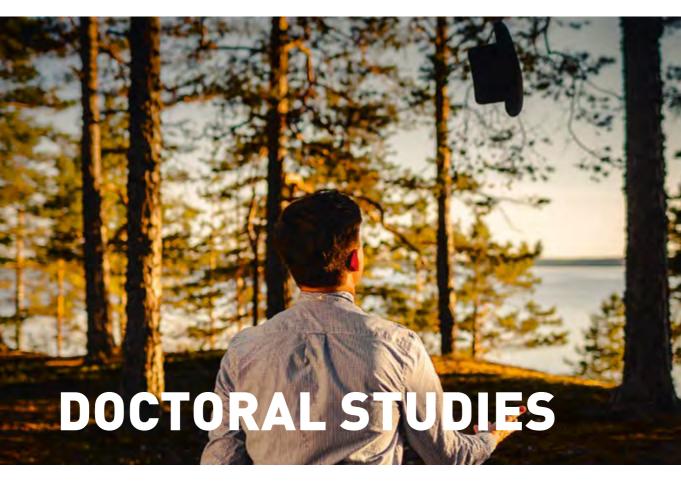
After graduation:

- >> Global sourcing director
- >> Supply manager
- Category manager
- >> Strategic buyer

Read more:

lut.fi/msm





Focus on research that matters.

At LUT, we seek solutions to control climate change, to promote wind and solar power, to recycle nutrients and waste, to secure access to clean water and energy, and to foster sustainable business activities – to name just a few of our focus areas.

Our doctoral programmes cover all of LUT's fields of science. During your doctoral studies, you will acquire in-depth knowledge of your research field and be able to apply research methods to generate new scientific knowledge.

In addition to conducting scientific research, your doctoral degree will include tailored, field-specific studies with a chance to acquire transferable skills as well – all in four years of full-time study.

You can become a doctoral student by first applying for open positions at LUT (junior researcher, project researcher). Then, you apply separately for a doctoral study right to gain a doctoral student status in addition to your status as an employee.

You can also study part-time while working outside the university, which naturally requires more time to complete the degree. Interested candidates with their own funding can apply for the doctoral study right after securing their funding and supervisory resources.

You can choose from three doctoral programmes:

- >> Business and Management
- >> Energy Systems
- >> Engineering Science

Degrees

Doctor of Science (Technology)
Doctor of Science (Economics
and Business Administration)
Doctor of Philosophy

Duration: 4 years Language: English Credits: 40 ECTS credits of studies + a dissertation Tuition fee: none

lut.fi/doctoralstudies





EXCHANGE STUDIES

Experience a new culture and personal growth, learn new languages and make new friends from around the world.

Every year, we welcome more than 200 exchange students. Students come mainly through the Erasmus+ programme and bilateral agreements.

During the exchange, you can take business, technology and language courses. You can study business, management and industrial engineering courses at both the Bachelor's and Master's levels or study technology and engineering courses in different fields mainly at the Master's level.

Start your exchange experience by asking your home university if an exchange agreement is in place between your university and LUT. You need to be nominated for exchange by your home university. LUT reviews exchange applications twice a year, and you can choose whether to come for the full academic year or for one semester.

lut.fi/exchange



LUT SUMMER SCHOOL

Enrich your academic knowledge during your summer break, have fun with new friends and experience the beautiful Finnish summer.

In the LUT Summer School, you can take intensive Bachelor's and Master's level courses in the fields of technology and business. The courses are arranged by LUT University and the LAB University of Applied Sciences.

During the LUT Summer School, you will become acquainted with LUT's and LAB's extensive range of academic opportunities and student life. With a wide variety of subject areas to choose from, you are sure to find something that suits your interests and needs.

We want to ensure that each student makes the most of their time here by arranging a very extensive, action-packed social programme. Students attend numerous traditional Finnish sauna evenings and social events, go on a cruise on the beautiful Lake Saimaa, and much more.

lut.fi/summerschool

Programme: short-term,

non-degree

Duration: 2 weeks Time: July-August Language: English

Credits: 3-12 ECTS credits Fees: vary from EUR 595 to EUR 1 965 depending on the number of courses and choice of accommodation Application: November-May







LUT WINTER SCHOOL

Take courses together with LUT's exchange and degree students.

In the LUT Winter School, you can take both regular and intensive courses at the Bachelor's and Master's levels and stay up to eight weeks. You will study with other winter school participants as well as LUT degree and exchange students.

The LUT Winter School is not only about studying. Social events will enable you to get to know the Finnish culture and learn about other cultures by interacting with students from different backgrounds.

You have an opportunity to experience something that is not possible anywhere else – the traditional Finnish sauna with a swim in an icy pool, walking on a frozen lake, and skiing!

lut.fi/winterschool

Programme: short-term,

non-degree

Duration: 2-8 weeks

Time: January–March 2022

Language: English

Credits: 3-12 ECTS credits Fees: vary from EUR 395 to EUR 1 495 depending on the course package and choice of accommodation

Application: September-December



