OWN YOUR FUTURE

World-changing international programmes at Linköping University 2023
WHEN, IF NOT NOW?

% Masters programmes

Engineering and computer sciences
16 Aeronautical Engineering
17 Biomedical Engineering
18 Communication Systems
19 Computer Science
20 Cybersecurity
21 Electronics Engineering
22 Industrial Engineering and Management
23 Mechanical Engineering
24 Sustainability Engineering and Management
25 Statistics and Machine Learning
26 Intelligent Transport Systems and Logistics

Design
27 Design

Environmental studies
28 Ecology and the Environment
29 Science for Sustainable Development

Natural sciences
30 Applied Ethology and Animal Biology
31 Chemistry
32 Experimental and Medical Biosciences
33 Materials Physics for Nano and Quantum Technology
34 Protein Science

Education
35 Adult Learning and Global Change
36 Outdoor and Sustainability Education

Social sciences and humanities
37 Ageing and Social Change
38 Applied Ethics
39 Business Administration - Strategy and Management in International Organisations
40 Computational Social Science
41 Child Studies
42 Ethnic and Migration Studies
43 Gender Studies - Intersectionality and Change
44 International and European Relations
45 Strategic Urban and Regional Planning

Bachelor programme
46 Experimental and Industrial Biomedicine

% Bachelor programmes

Linköping University Quick Facts

Founded 1975
Top 2% universities in the world
Exchange agreements 400 universities

Students 35,900
International students 1,923***

Male 43%***
Female 57%***

Professors 341
PhD students 1,200
Doctoral degrees 139

Nationalities (Exchange students) 40

Top 6 Countries ***
India
Germany
Spain
Finland
France
China

* Visit liu.se/en/article/rankinglistfor more information.
** Numbers from UKÄ (Swedish Higher Education Authority) in 2019, which regularly follows up on how various student groups have established themselves on the labour market one and a half years after having finished their studies.
*** Numbers from UKÄ (Swedish Higher Education Authority) 2021 for all students registered at Linköping University.
All other data from Linköping University annual report 2021.
OWN YOUR FUTURE

Change is inevitable. The question is: are you in control of the changes in your life? Do you dare to think and act in new ways? Are you brave enough to go beyond your comfort zone?

At Linköping University, we believe in navigating our own paths into the future by putting innovation above tradition and results above prestige. We believe in exploring new grounds and smashing the boundaries. But big changes start small. Daring to chase your dreams is the first step in making them happen. An education at Linköping University will give you every opportunity to succeed in an uncertain future. It gives you what you need to achieve your dreams. It’s what we call owning your future.

CHOOSE THE FUTURE AT LINKÖPING UNIVERSITY.
SKILLED AND THRILLED

Emily
Germany / Spain - International and European Relations

Deeper into our chosen topics
Here there is just one course at a time for 4 to 5 weeks. And the examination takes place at the end of this time period. We usually have papers to write as examinations. So, there is not this memorising of a huge amount of information, instead we research more and can get deeper into our chosen topics.

Structure
I find it very helpful to structure my work. At times we have several books to read and assignments to write. To not get overwhelmed by the work it helps to make up a schedule. You can plan which days you read or how much you write and when you revise everything, so that you can hand everything in on time.

Black coffee with a cinnamon bun
Wherever I go next, I will most certainly continue the fika tradition. Having some coffee and pastry in the afternoon is a nice way to reenergize and also meet up with friends. My favourite fika would be black coffee with a cinnamon bun.

Yassin
Uganda – Outdoor and Sustainability Education

Built my confidence
The students literally take centre stage and the lecturers spice it up with this safe open environment which has really built my confidence as an individual. And here, teamwork is everything. And the joy that comes with winning as a team; incomparable!

A whole new other world
Well, work-life balance is really huge around here. And outside studies is a whole new other world. I mean, between the potlucks, corridor parties, clubs; there’s like everything for everyone! Personally, I am into playing football with friends, hanging for board games and church.

Use all the resources
The fact that you’re considering LiU means that you are ambitious and very driven to accomplish what you want in life; so keep that goal in mind and always take the initiative to pursue what you want and stay focussed. LiU is very well sourced, use all the resources at your disposal.

Agathe
France - Design

Grounded theory
Similar to my previous design school, LiU includes a lot of projects. However, we reflect more on our practice through reading academic papers, backing my projects with grounded theory, and thinking of how to develop further.

Connect with second-year students
You should plan your work and reach out to teachers if you didn’t understand something. Also, connect with the second-year students as they have been through the same courses and enlarge your vision with their different perspectives.

Many activities to choose from
I mostly hang out with my classmates or my roommates, either for dinners, nights out or long walks in nature. Recently, I ran the LiU race with Swedish classmates, started playing Dungeons and Dragons through a student association and joined both LiU SecondHand Shop and ESN (Erasmus network) committees. There are many activities to choose from.
DEVELOPMENT HAS BEEN RAPID since LiU appointed Sweden’s first professor in computer science, Erik Sandewall, in 1975. He presented his doctoral thesis in 1969 on the new subject “artificial intelligence”. At the time, research was focussed on expert systems and knowledge transfer.

The focus today has shifted to machine learning, deep learning and systems that include reasoning and decision-making processes – AI-enabled systems.

“LiU’s technical expertise, talent and technology within AI really stand out from the crowd. One example is Berzelius, Sweden’s fastest AI supercomputer, installed at LiU in March 2021. Our technical AI expertise forms the core of our work, but it is, of course, also about so much more”, says Micael Frideros, research engineer in AI and assistant director for LiU’s AI initiative.

World-leading research is conducted in several important fields of AI at LiU. Computer vision, deep learning in which computers can draw their own conclusions, is one strong field. Another field is knowledge systems and advanced decision support, which requires logical reasoning. A third field is research into the role of humans in the systems, together with how we can maintain the knowledge required to take over if the systems fail.

LiU has always worked with innovating education and research, and scientists have worked across boundaries to solve complex problems since the early eighties. A great example of this is the research led by Ericka Johnson and Kathrine Harrison at the Department of Thematic Studies. It’s absolutely vital that researchers from various disciplines like the humanities, social sciences and engineering sciences meet.

“Only by cooperating across boundaries can we discover how trust, empathy and accountability can be created at the interface between humans and robots”, says Katherine Harrison.

LiU’s AI initiative involves a wide range of work, from education and research to contact with industry and society.

“We want to work with recruiting and be asking ourselves how we can sharpen our offer to students and get better at reaching out. We want to be able to deliver good education, both on-campus and digitally, from an AI perspective”, says Micael Frideros.

AI will change our lives and our behaviour. This is why many of our master’s programmes contains elements of AI. It also plays a key role in programmes such as Statistics and Machine Learning, Computer science and in the new programme in Cybersecurity starting in 2023. There are also freestanding courses for all interested.

Learn more about AI at LiU at liu.se/ai
07:55 - The sun has been up for a while now. Like almost every day, I ride my bike to school. It is the most convenient transportation since everything is within 15 minutes, so everyone rides one! On the rare occasion of a snowstorm, I might take the bus.

10:15 - My lecture has ended and now I’m working with a few classmates on our group project. I learn so much by working with them because we have different backgrounds and perspectives. We can overcome more complex problems by putting our brains together. Teachers help us if we get stuck too.

11:10 - Our brains sometimes need a break. One thing that I discovered here is the importance of fika. I usually go with my classmates to the coffee shop to get a pastry with my coffee and we talk about anything but work. It is a great way to get to know someone! I also fika with my roommates on Sundays to catch up.

12:08 - Time to eat! I grab my packed lunchbox and head to the microwaves. There are some in the student kitchens of every building! Most of the students make their food for lunch, it’s cheaper and often tastier than buying a sandwich.

13:15 - This afternoon, I am reading some articles to prepare for an upcoming seminar. Like most days, I have a lot of ‘empty’ (non-scheduled) time in my schedule to work on individual assignments and group work.
Close to nature
16:24 - I'm done with studying for today! My roommates fetched me as they were leaving Studenthuset. I am going for a walk with them in the nature reserve behind the building and enjoying a bit of that sun. On weekends, we usually go a bit further, hiking to a lake or into one of the many forests in the region.

Barbecue
18:30 - Dinner time! I'm meeting other students at a barbeque to play some kubb*. We're going to eat and play some games. I love going to these events because I meet so many new friends from all over the world.

Evening activity
20:34 - It's Friday night so I go to one of the student pubs to enjoy a drink with friends. Linköping University has a bustling student life. From parties to board game nights, there is always something to do for extroverts and introverts alike.

* Kubb is a traditional Swedish outdoor game where the objective is to knock over wooden blocks by throwing wooden batons at them.

RESEARCH THAT MAKES A DIFFERENCE
**BRING GRIT GET GLORY**

Tina & Mikael

We chat with two of our supportive teachers about what it takes to make it.

Challenging established ways of thinking to address global challenges requires a strong focus and plenty of ambition.

“COME WITH AN OPEN MIND, be curious about new issues, be prepared for an interdisciplinary approach and for working as a team. And most importantly, remember that your own level of ambition will determine your result, as there is high proportion of independent work. That’s my best advice for anyone applying to our international master’s programmes, whatever their academic background,” says Tina Simone Neset, senior lecturer at the Department of Thematic Studies – Environmental Change.

In other words, completing a master’s at Linköping University with good grades requires serious commitment – to say that it’s full-time studies is not an exaggeration. The interaction with fellow students is also significant for studies at LiU.

“WE WORK A LOT IN PROJECT GROUPS, where the students get together to address a challenge or an issue from the industry. To work in a group, you have to plan your time well, and be able to cooperate with others. This method is new to many of our students, but it also develops skills that are valued by potential employers”, says Mikael Segeråsll, who teaches in the master’s programme Mechanical Engineering.

“OF COURSE the teaching staff, including the professors, are present and very much available throughout the process, both as support and as a sounding board, but it’s the students themselves who ensure that progress is made. Therefore, success relies on being able to communicate well within the group, as well as on the ability to immerse oneself in new fields and to solve problems. This problem-solving ability is one of the traits that has brought LiU alumni success and a good reputation worldwide. Many of the master’s programmes relate to current and important issues — such as Science for Sustainable Development. It includes subjects like global resource use, climate science and policy, and other issues that span over social and natural science. And it requires an interdisciplinary approach again, a LiU hallmark. Most teachers at LiU are active researchers involved in national or international research projects, which means current issues in research are addressed in courses and often picked up in master’s theses.

“ALL OF MY COLLEAGUES are very involved in the students’ successes, while also managing their own research projects. This means that we give our students the tools to succeed with their studies, as well as the knowledge that’s relevant right now, and in your life after graduation. But it’s important that you have a strong first degree when you come here”, says Mikael Segeråsll.

Yes, it’s a tough, but an incredibly fun and rewarding time, many alumni report. Tina Simone Neset concludes: “For your master’s, choose a topic that you’re genuinely interested in, add some hard work and you’ll do fine.”
Aeronautical Engineering

Degree: Master of Science with a major in Aeronautical Engineering  
Credits: 120  
Duration: Two years  
Place of study: Full-time  
Campus: Linköping  
More info: liu.se/aeronautical

Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Learn the intricacies of aeronautics in the aviation capital of Sweden.

Linköping is one of few places in the world where aircraft are designed and manufactured. There are several aeronautical and military aviation businesses in the city, such as Saab, the producer of the Gripen aircraft and tier-1 partner to Airbus and Boeing, various UAV manufacturers, and the space company Beyond Gravity (former RUAG).

As a student, you will benefit from our location through close research collaboration between the university, the aerospace industry, and our industry-affiliated teachers. LiU’s central position within aeronautical engineering is also manifested by hosting the Swedish Aerospace Research Center (SARC) incorporating multiple collaborations with worldwide research actors.

This master’s programme offers a holistic perspective on the intricacies of aircraft design, covering the entire process from the conceptual to the detailed design phase.

An aircraft represents a complex integration of systems from various technologies and disciplines, including aerodynamics, structure, propulsion, actuation, and other on-board systems. All these disciplines come together during the latter stages of the programme, when students are challenged to design, build, and fly an aircraft.

The programme has three specialisations:
- Aircraft Aerodynamics
- Aircraft Structures
- Aircraft Systems Design

Modelling and simulation, including extensive use of contemporary engineering design tools, are fundamental elements in all these profiles.

After graduation you will be prepared for a career within the aerospace industry, ranging from conceptual aircraft design, aircraft systems engineering to aircraft engineering. You will be capable of taking on leading roles and working independently. Alternatively, you can work in related fields such as vehicle or wind turbine engineering, complex systems and product development, general systems engineering, or you may opt to continue your career within academia.

André da Luz Moreira
Brazil - Research engineer at Linköping University

To me the educational system in Sweden greatly differs from most other countries, due to the focus on self-development and critical thinking. The majority of courses in this programme require the students to work in groups and pairs, such that collaboration and teamwork are key to performing well. This prepares us for working in teams, learning how to allocate tasks, discuss, plan and ultimately contribute to common results.

Biomedical Engineering

Degree: Master of Science with a major in Biomedical Engineering  
Credits: 120  
Duration: Two years  
Place of study: Full-time  
Campus: Linköping  
More info: liu.se/biomedical

Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Improve human health through innovative technology.

Biomedical engineering is often referred to as engineering for a good life. It is a field in which your creativity and problem-solving skills will benefit humanity and make a difference.

The intersection of the natural sciences, medicine, and technology is a dynamic place. This programme combines fundamental concepts and knowledge in engineering, biology, and medicine. Based on solid mathematical and physical foundations, useful medical knowledge, and a vibrant engineering spirit, you will learn how to develop sustainable and innovative technologies, materials, and systems that improve healthcare.

The first year is a broad compulsory segment, with courses in anatomy and physiology, medical information systems, biomedical signal processing, and signal theory, creating the strong knowledge base required for your further studies.

The second year offers in-depth specialisation along one of four tracks:
- Biomedical Signals and Instrumentation, an area in which multidimensional signals are used to model and simulate anatomy and physiological processes in medicine
- Medical Imaging, in which advanced technology and theory unveil the inner secrets of humankind
- Medical Informatics and eHealth, in which you study the acquisition, processing, and utilisation of information to support health related decision-making
- Biomedical Engineering Materials, in which you get knowledge in materials aimed for medical or biomedical engineering applications.

During the final semester, you will write a master thesis within biomedical engineering, at the department, in a hospital, or at a private company. After graduating, you will have the skills required to formulate and solve engineering problems in the biomedical domain, implement and operate processes and systems, and evaluate engineering tools applied in medicine.

Alfredo Miguel Ordinola Santisteban
Peru - Current Student

LiU has given me the opportunity to flesh out the skills needed to contribute to a team and lead it in different scenarios. The education is very problem solving centered and tailored to be interactive which requires independence and critical thinking from students. I was not used to this type of learning environment, but I enjoyed it wholeheartedly.
Communication Systems

Degree: Master of Science with a major in Electrical Engineering  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/comsys
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Cutting-edge research into 5G network technology and beyond.

The exponential growth in the use of communication devices in our increasingly connected society needs skilled engineers to drive technological development and inspire new inventions, such as new applications for the Internet of Things, or ways to achieve higher user performance despite limited wireless resources.

Linköping University is at the forefront of communications research. We are known for our seminal research on massive MIMO systems, in collaboration with Ericsson and Nokia Bell Labs, among others. We have a popular YouTube channel and are members of the Swedish government’s strategic initiatives ELLIIT and Security-Link. Our campus is conveniently located near Swedish high-tech companies Ericsson and Saab, as well as several exciting start-ups.

This master’s programme offers students a broad curriculum in communication systems, focusing on the fundamental principles of systems engineering and the design of digital and wireless communications systems. Topics covered include communication theory, coding, modulation, signal processing, artificial intelligence, and the design and optimisation of communication systems and networks. In the latter stages of the programme students will be challenged to build a communication system.

Our graduates are prepared for a career in engineering within different branches of communications. They work in diverse areas as senior software developers, technical coordinators for product development, and researchers on defence communications. Alternatively, you may continue conducting research leading to a doctoral degree.

Ching-Hsiang Yang
Taiwan – Alumn

Most people go for exchange to the US; I just wanted to go see how it is and experience living in Northern Europe. I have different experiences and they are very valuable. The professors always gave us information on further research and that helped a lot. They have experience in the field and give us an insight into what is going on right now and what will be the future innovations.

Computer Science

Degree: Master of Science with a major in Computer Science  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/compscience
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Shape the forefront of modern software and computer systems technology.

Computer science and technology play a key role in every part of the modern world. It is also one of the most dynamic and expansive fields of science.

Linköping University is home to one of the most important centres of computer science and engineering in Northern Europe; with 26 full professors, it is renowned for top-quality research and education. Additionally, neighbouring our main campus is Linköping Science Park, an incubator with 300 knowledge-intensive companies where many of our alumni are now employed, or have gained experience.

This master’s programme offers you the knowledge required to master the theoretical foundations of the field and be able to apply and integrate them with other technologies.

The programme has five specialisations:
- Visualisation and Computer Graphics
- Artificial Intelligence and Data Mining
- Programming and Software Methods
- Computer Networks, Distributed Systems and Security
- Embedded Systems
- Programming and Software Methods

It is not mandatory to follow a specialisation; you may tailor your own combination of courses.

Our graduates are prepared for careers at the forefront of modern software and computer systems technology, as operating system designers, internet security or AI specialists, or working with visualisation in fields such as medicine, business, or social sciences. You may also opt for a career in research via continued studies towards a doctoral degree.

Edward Nsolo
Tanzania – Lecturer at Mkwawa University College of Education

Many courses had a project component. This enables students to be innovative and competent graduates. We learned to be independent thinkers, problem-solvers, and good decision-makers. Swedes are very dedicated, organised, and hard-working people. I am eager to live that example in my whole career.
Cybersecurity

Degree: Master of Science with a major in Computer Science and specialization in Cybersecurity  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/cybersec
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Help defend society against cyberattacks and develop next-generation security solutions.

The digital society provides many benefits to its citizens, but it is vulnerable to cyberattacks which can disrupt or disable financial systems, critical infrastructure, social media, and government services. Cybersecurity competence is needed in every sector and the demand for security experts is enormous. Linköping University conducts world-class research in the cybersecurity field. Together with the Swedish Defence Research Agency, the National Forensic Centre, and several leading security companies, the Linköping region gathers some of the best cybersecurity expertise in Europe.

This master’s programme offers the breadth required to act the cybersecurity landscape with skills in organisational security, human security (social engineering attacks and defences), digital forensics, and cyberlaw. Drawing from our deep cybersecurity expertise, the programme features technically advanced courses in software security, system and network security, and cryptology. Courses combine theoretical knowledge with several hands-on exercises and challenging projects. In the second semester, a course in ethical hacking will train your ability to defend and challenge state-of-the-art security solutions.

As a cybersecurity expert from Linköping University you will have excellent career opportunities. You will be able to take up technical roles with companies developing new security solutions, to lead others to improve cybersecurity at an organisational level. You may also delve further into the science of cybersecurity through PhD studies and an academic career.

David Hasselquist
Industrial PhD student & Research Engineer, Sectra Communications

The programme courses have inspired and allowed me to contribute to a safer society. By combining theory and practice, I have gained knowledge in the cybersecurity domain which I benefit from in my academic and industrial career. IT security is becoming increasingly important in today’s connected society. With an education in cybersecurity, my skills and knowledge are highly desired.

Electronics Engineering

Degree: Master of Science with a major in Electrical Engineering  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/electronics
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Advance far beyond the curriculum of traditional electronics education.

Modern society depends on reliable and efficient electronics supporting a wide range of application areas such as broadband communications, high-speed computing, healthcare, automotive, artificial intelligence (AI), the internet of things (IoT), and more. This means that the demand for engineers with the knowledge required to lead the design of complex integrated circuits and systems will remain high for the foreseeable future.

The programme provides you with a competitive education in digital, analogue and radio frequency (RF) integrated circuits (IC) and system-on-chip (SoC) design, combined with in-depth knowledge in signal processing, application-specific processors, embedded systems design, modern communications systems, and radio transceiver design.

The first year offers courses in digital and analogue integrated circuits, digital systems design, digital communication, and an introduction to radio electronics.

Later in the programme, you choose between two specialisations:
- System-on-chip, with a focus on digital system-on-chip design and embedded systems.
- Analogue/digital and RF IC design, with a focus on the design of mixed analogue/digital and radio-frequency integrated circuits.

The programme is organised by several strong divisions with excellent teaching experience, world-class research activities, state-of-the-art laboratories and design environments, and close research collaboration with many companies worldwide.

Our graduates can expect excellent career opportunities in major research and development centres, both in the industry and in academic institutions worldwide. You will be specifically trained and qualified to work as an IC design engineer in major semiconductor, IC and telecom companies. You will also be well prepared for further studies towards a doctoral degree.

Bo Sun
China - Software Developer, VECTOR Sweden

I like the way the university is set up, there is not too much pressure and the emphasis is on knowledge. If you fail an exam there are chances to try again. It’s about improving your knowledge, not about simply passing tests. The software we used to design the chips is the same software that companies like Intel use. I can start working immediately because I already know the software.
Prepare for a leading role by integrating engineering, management and mathematics.

Linköping University has been a pioneer in industrial engineering and management education since the 1970s. Thanks to our qualified teachers, we can offer you interesting challenges and personal development to help you reach success.

Besides lectures and laboratory work, we expect you to actively participate in projects, writing papers, essays and reports, and presenting minor research tasks. This is demanding, and for good reason. We take education seriously and want your time with us to be as meaningful as possible.

This master's programme provides knowledge in industrial engineering and management through a multidisciplinary approach, giving you the skills to adopt changes in the industrial environment in a responsible and efficient manner. Core courses in project management and organisation, production planning and control, and quality management will help put your engineering skills in an industrial management context.

Choose between three profiles:

• Innovation Management: Focuses on the development and commercialisation of resource-efficient and sustainable products and solutions.

• Operations Management: Effective management and utilisation of resources such as machinery, materials, and information, while meeting customer demand.

• Quality Management: A set of concepts and practices characterised by core principles such as customer focus, process management, fact-based decisions, and committed leadership.

Our graduates are enjoying interesting careers as R&D managers in tech-intensive companies, or as CTOs in smaller companies and start-ups. You will be qualified for engineering positions with businesses and authorities involving consulting, investment strategies, production planning and control, Lean, quality, and supply chain management. You will also be prepared for an academic career beginning with doctoral studies.

Deepika Dronamraju

India - Method & Parts Engineer, Scania Group

This master’s programme exceeded my expectations and I am very glad that I chose LiU for my master’s in Sweden. The education at LiU is very structured and practical. I got the opportunity to do my Six Sigma Green Belt Certification through my 12 credits project course which boosted my passion towards Quality Management.

Realise complex technical products and industrial processes.

Mechanical engineers are expected to be creative, have broad knowledge and work as members of multidisciplinary teams. With this master’s programme, you will become a problem-solver with a holistic perspective, ready to take part in today's product development to create tomorrow's sustainable society. Choose among the following specialisations:

• Applied Mechanics – classical and modern applied mechanics with a strong focus on the modelling and simulation of solid mechanics, fluid dynamics and thermodynamics.

• Engineering Design and Product Development – modern and advanced approaches in CAD, design optimisation and product development.

• Engineering Materials – deep knowledge about the behaviour of classical metallic engineering materials, but also about plastics and new emerging materials.

• Manufacturing Engineering – covers aspects from automation and assembly technology to factories of the future, virtual production, additive manufacturing and lean production.

• Mechatronics – how to design and analyse controlled mechanical systems such as hydraulic systems.

After graduation, you will have excellent opportunities for employment in almost all sectors of the engineering industry. You will be able to take part in multidisciplinary design processes where technical as well as economic, environmental and sustainability requirements are satisfied. You could be involved with the generation, distribution and use of energy; the design and development of machines, vehicles and transportation systems; or the processing of materials. In addition, you will be prepared for a research career.

Sabari Raj

India - Sales Support Engineer, Eaton

I’ve never regretted studying at LiU. I really like that we had a lot of group work; this helped us to understand different perspectives and working styles of people from different nationalities and helped us to investigate more in depth about the topic. The professors are really informal and are very open to plenty of doubts and discussions.
Sustainability Engineering and Management

Create innovative sustainable solutions in one of the fastest growing business sectors.

The ability to develop sustainable solutions will be crucial for companies and organisations in the future. An urgent need for rapid change within many technical fields has increased the demand for new management strategies. This programme will provide you with the ability to lead production, engineering and society in a sustainable direction. Today, energy and sustainable engineering is one of the fastest growing sectors.

Our current exploitation of natural resources has severe environmental implications, such as the emission of hazardous substances and resource scarcity. This programme teaches you how to combine an interdisciplinary systems perspective with skills in modern environmental and energy engineering. This holistic and proactive approach is essential to limit, prevent and solve environmental problems. The programme unites the perspectives of two departmental research groups that are developing systems solutions and producing internationally renowned research in renewable energy, circular economy, energy efficiency and corporate environmental management.

Linköping University is hosting a national research excellence centre on biogas production and utilisation. We are also coordinating the Mistra REES (Resource-Efficient and Effective Solutions) programme. This means that you will have plenty of opportunities to see how modern environmental technology works in action. Throughout the programme you will participate in lectures, seminars, student projects and labs. You will learn how to develop, evaluate and manage sustainable systems.

As a graduate, you are qualified for a wide range of leading environmental engineering positions: in energy consulting, energy distribution and generation sectors. You will also be well prepared for an academic career, should you choose to continue into research and pursue a doctoral degree.

Hanna Zanatta

Sweden - Research Assistant, Linköping University

I want to work with developing countries to build efficient and sustainable energy systems to power future technologies. I believe that my studies at LiU will give me the required tools to address global problems such as affordable and clean energy and make a direct impact on people’s lives by changing the ways products are manufactured and consumed.

Statistics and Machine Learning

Unleash the power of data and statistics to help you make the right decisions.

The rapid development of information technologies has overwhelmed society with enormous volumes of information generated by large or complex systems from telecommunications, robotics, medicine, business and many other fields. This master’s programme meets the challenges of learning from these complex volumes by means of models and algorithms from machine learning, data mining and other computer-intensive statistical methods.

By joining us, you will increase the efficiency and productivity of the systems and make them smarter and more autonomous. We integrate statistical modelling and analysis with machine learning, data mining and data management to give you unique skills.

The programme focuses on modern methods from machine learning and database management that use the power of statistics to build efficient models and make reliable predictions and optimal decisions. You will gain deep theoretical knowledge as well as practical experience from extensive amounts of laboratory work.

Depending on your interests, you will work towards your thesis at a company, a governmental institution or a research unit at LiU. There you can apply your knowledge to a real problem and meet people who use advanced data analytics in practice or you can go deeper into the research.

There is a rapidly increasing demand for specialists who are able to exploit the new wealth of information in large and complex systems. Business, telecommunications, IT and medicine are just a few examples of areas where you will be wanted for advanced analytical positions. You will also be well prepared for an academic career, should you choose to continue into research and pursue a doctoral degree.

Alejandro García Alvarez

Spain - Co-founder of a startup named Foxrane

What I really liked about the academics is that the courses were very practical, we learnt a lot by doing it ourselves which I really enjoyed. The quality of the studies was exceptional. Moreover, the student life in Linköping is truly unique. There’s always students around you, you meet tons of new people from all over the world, make new friends and learn new things.
Intelligent Transport Systems and Logistics

Join our world-leading research into future transport systems and smart cities.

Transport systems are undergoing a huge transformation. Autonomous driving is becoming a reality, and the electrification of roads has begun. Vehicles are connected to each other and to the infrastructure in smart cities, enabling the collection of all sorts of data for the analysis and management of the movements of people and goods.

This programme requires strong mathematical and analytical skills – programming experience is a distinct advantage. Focus is on the integration of IT and data science into transport and logistics systems, with the aim of increasing efficiency, safety, mobility and customer satisfaction while reducing environmental impact. The programme provides the tools to understand, develop and control future transport and logistics systems using optimisation, simulation, data analytics, and communication networks. You will study traffic network modelling and prediction, logistics, supply chain modelling, mobile telecommunications, road traffic safety, and project management.

As the programme progresses you may specialise towards Traffic or Logistics.

Thanks to your engineering profile and transport systems expertise, you will have a wide choice of challenging career opportunities. You may become a traffic engineer or a logistics manager or develop systems for traffic monitoring or autonomous driving. You will also be prepared for an academic career beginning with doctoral studies.

Rohit Muralidharan
India - Business Process Consultant, IFS AB

The way certain courses are designed helps you to build skills like working in groups and time management, but also planning, which I can relate to in my current job. Courses like six-sigma, supply-chain logistics, logistics networks and transport, GIS and Positioning systems involved very practical project work and assignments. The teachers conducting these courses were industry experts.

Design

Tackle societal challenges, ranging from food waste to collaborative welfare using interdisciplinary design.

Linköping University is one of Sweden’s leading design universities, with world-class research in areas such as design for services, sustainability and visual media. We welcome applicants from different educational backgrounds, with a desire to develop design beyond materials and disciplines.

This master’s programme incorporates established and innovative design concepts in a unique interdisciplinary setup. Studio courses form the backbone of the programme, providing the fundamentals of working with societal challenges. The programme features three design tracks, allowing you to develop your skills within an area of speciality:

• Service Design – design and innovation for the service sector
• Sustainable Design – design of sustainable systems, with accompanying business models, products, and services.
• Visual Media Design – design and conceptualisation of interactive visual environments beyond screens and handheld units.

You will learn to navigate complex contexts and create sustainable solutions, developing skills and knowledge in participatory design and co-creative practices. You will interact with companies, organisations and entrepreneurs, in collaborations across professions and campuses.

Our graduates are prepared for advanced careers as designers in interdisciplinary design environments. You may find employment as an interaction designer or product designer, designing for service or policy, in the public or voluntary sector, as an entrepreneur or with start-ups. You will also be qualified to continue postgraduate education at doctoral level.

Lyn Cao
China - Service Designer, Svea Ekonom

Design is about making things work better. It’s about understanding people and creating empathy for what individuals need and want. In service design, we try to understand the big picture of holistic service systems and create solutions with the stakeholders to improve the current services or create new ones. This is a quite new major and it includes knowledge from many disciplines. Also, the process is great fun and full of unexpected surprises!
Ecology and Sustainable Development

Degree: Master of Science with a major in Biology  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/ecology
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Make a difference – contribute to an ecologically sustainable future.

In a world facing complex environmental problems, ecological understanding and a systems perspective are fundamental to finding sustainable solutions. If you are interested in nature and want to address global challenges, this programme is the right choice.

By applying ecological theories and quantitative methods, you will learn how to identify crop management strategies for biological control, evaluate the preservation status of nature reserves, and analyse regional ecosystem services and how they interplay with social and economic systems.

Ecology courses at LiU have a research perspective and are based on cases where you work closely with fellow students, teachers, and researchers in a collaborative atmosphere. As a student, you take part in outstanding research in, for example, conservation ecology and sustainable development.

You will sharpen your skills in experimental design, theoretical thinking, modelling, systems analysis, and scientific communication. During a six-week internship and in your one-year thesis project, you will have the opportunity to go deeper into areas of your interest and to establish a professional network for your future working life. Possible thesis subjects include biodiversity, species interaction in food webs, and nutrient cycling.

As a graduate, you can work with environmental and nature conservation issues such as the management of ecosystems, ecological communities, and populations to conserve life on land and below water. You may find employment with consultancy firms, government agencies, forestry companies, or international environmental organisations. You will also be well prepared for further postgraduate studies towards a doctoral degree.

Maja Bradarić
Bosnia and Herzegovina – PhD candidate, Netherlands

I really enjoyed that the courses were in depth and were always organized in form of individual or group projects. In my opinion, this is the best way to learn. You are working on something and unconsciously getting all the knowledge. Thinking outside of the box was always encouraged. And I liked the international atmosphere in Linköping, the people, the city and how easy it was to meet people or find events to attend.”

Science for Sustainable Development

Degree: Master of Science with a major in Environmental Science  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/sustainabledevelopment
Tuition fees: Approx. USD 11,000/EUR 10,500 (SEK 110,000) per academic year (for non-EU citizens)

Be part of the solution for a sustainable future.

The future needs sustainable solutions to societal challenges. This programme offers holistic solutions to societal problems by crossing disciplinary boundaries. Climate change, natural resource exploitation, increasing energy demand and inequality are some examples in focus. The master’s programme allows you to explore the complexity of creating sustainable societies in alignment with the global Sustainable Development Goals.

The programme addresses global environmental changes and societal transformations. It will challenge you to undertake critical analysis of present and future environmental concerns, apply scientific knowledge across academic disciplines, and develop interdisciplinary competence. Your training will enable you to design and implement solutions to sustainability challenges, which will be indispensable for your future career as a sustainable development expert.

The core courses give you a wide perspective on societal challenges, and at the same time, provide opportunities to deepen your theoretical knowledge and practical skills on specific scientific fields. Field trips, laboratory experiments, GIS exercises, spatial analysis in the Norrköping Decision Arena, role-plays, study visits to authorities and businesses in the progressive Östergötland county are just some of the ways in which you will learn about sustainable solutions. LiU offers a unique interdisciplinary perspective on sustainability to bridge academic disciplines and acquire diverse expertise.

The programme provides a strong basis for a career related to sustainable development and environmental sciences. Our graduates have positions in research institutes, universities, doctoral programmes, NGOs, intergovernmental agencies, national and international administrations, and leading positions in businesses such as consultancies and power companies.

Anna Häger
Åland – Citizen Engagement manager at the Flexens

The programme was an eyeopener for me. It enabled me to view sustainable development from several perspectives, such as what sustainable development is from a social and economic perspective. I went through an amazing development at LiU, both academically and as a person. What really impressed me at LiU is the way in which it promotes free discussion, making space in which the students can exchange knowledge and experience.
Applied Ethology and Animal Biology

Degree: Master of Science with a major in Biology  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/ethology
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Improve animal welfare – investigate animal behaviour and biology, up close.

For good animal welfare and husbandry, an understanding of animal behaviour and biology from an applied perspective is important. If you are interested in the well-being of animals and want to preserve biodiversity, this programme is for you.

The programme is conducted in collaboration with Kolmården Wildlife Park, the largest and most renowned zoo in Scandinavia. Several teaching sessions are held at the zoo, where you acquire first-hand knowledge from experienced staff. You will gain in-depth understanding of the biology of stress and its role in animal welfare, the effects of domestication on animal behaviour, the physiology of behaviour, problems associated with keeping animals in captivity, and conservation biology. The courses are closely connected to ongoing research performed by teachers on, for example, how various genes influence animal behaviour, well-being and personality, the sensory world of mammals, and human-animal interactions.

In addition to classroom lectures and seminars, you participate in several hands-on projects. A key part of the programme is a one-year degree project (60 ECTS), which allows you to specialise in a subject based on your interests. You will have the opportunity to perform your degree project at a zoo, government agency, organisation or company, in Sweden or abroad.

As a graduate, you will be well-acquainted with animal behaviour and its underlying mechanisms. Career opportunities include animal welfare inspector, wildlife conservationist, or advisor for zoos, private businesses, and animal or environmental agencies, to name a few. You will also be qualified to pursue PhD studies.

Pentti Niiranen
Sweden - PhD Student

To study in Linköping is a decision I will never regret! The professors are so friendly and helpful, and the student life is fun. I really enjoyed this master’s programme due to its content and structure – it incorporated all fields of chemistry. It helped me obtain in-depth knowledge about bonding, synthesis, reactivity, and analysis, but also how chemistry is used in applications.

Chemistry

Degree: Master of Science with a major in Chemistry  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/chemistry
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Join us on a journey from materials science to medicine with the molecule in focus.

Skilled chemists will play a key role in solving the great challenges we are facing concerning the environment and the health of an aging population. The complexity of issues as diverse as climate change, energy storage, cancer and antibiotic resistance requires a broad chemical knowledge.

This programme has a modern, molecule-centred approach, beyond traditional branches of chemistry. By studying the details of the chemical bond, followed by synthesis and analysis of both molecules and materials, you will learn why molecules with a certain structure are suited for a given application within nanotechnology, medicinal chemistry and materials science. Throughout the programme, our experienced teachers, who are all active researchers, will describe and apply theories covered in lectures.

After graduation, you will have proficiency in “thinking chemistry” from a molecular perspective. The job market for chemists is excellent. You may find work in the pharmaceutical or materials science industries, or with environmental agencies. The programme also makes you well prepared for further studies towards a doctoral degree.
Experimental and Medical Biosciences

Degree: Master of Medical Science in Medical Biology  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/biosciences
Tuition fees: Approx. USD 15,000/EUR 13,000 (SEK 136,000) per academic year (for non-EU citizens)

Join the frontline of knowledge in the field of biomedicine and kick-start your scientific career.

The high level of cooperation within research groups at LiU sets us apart. Our master’s programme prepares you for breaking new ground within the broad field of life sciences, with particular emphasis on understanding cellular and molecular mechanisms related to health and diseases.

Different areas such as stem cells and applied regenerative medicine, virology and infectious diseases, neurobiology, immunology, cardiovascular biology, genetics and pharmacology, are covered.

The programme unites theoretical knowledge with practical skills, particularly in the individual experimental projects that you will carry out.

Courses are taught using regular lectures, but also tutorial groups that apply problem-based learning (PBL), laboratory work and seminar discussions.

The laboratory classes use powerful model systems to illustrate modern concepts of medical biology, and PBL promotes lifelong learning.

Individual projects are key parts of the programme. Already during the first year you will get the chance to perform an individual laboratory project. In the second year, you will conduct your degree project in a research laboratory either at Linköping University, at another Swedish or international university, in industry or in the public sector.

An additional feature of the programme is the possibility for a limited number of students to study the second year at the University of Applied Sciences, Technikum Wien or at the University of Applied Sciences Krems, both in Austria. If you pursue this opportunity you will earn an additional degree – Master of Science in Engineering. The studies in Austria have a strong link to the industry.

As a graduate you will be well prepared for careers in the pharmaceutical and healthcare industries, in the public sector or within academia.

Samiran Bairagi

India - PhD student

At LiU students are getting world-class education with emphasis on learning. Teachers devote considerable amount of time to design lectures and lab tasks in a way that encourages students to think and come up with solutions. I think this helps with better understanding of physical concepts and with development of problem-solving abilities both in the real life and in academia.
Protein Science

Degree: Master of Science with a major in Chemical Biology Credits: 120
Duration: Two years Pace of study: Full-time Campus: Linköping More info: liu.se/proteinscience
Tuition fees: Approx. USD 13,500/EUR 12,000 (SEK 126,000) per academic year (for non-EU citizens)

Tackle health challenges with in-depth knowledge of protein structure and function.

Detailed knowledge of proteins and other biomolecules is crucial to our understanding of living processes. By studying protein science, you will be prepared for challenges such as unvailing the molecular causes of disease, designing tools for early and reliable diagnosis, and finding effective therapies.

This master's programme will give you deep insights into mechanisms of protein action, based on complex structural aspects and mediated through binding dynamics, selectivity, and catalytic function. You will also study pharmacology and drug development. The education is offered in an internationally successful research environment focusing on the study of misfolded proteins causing neurodegenerative diseases, interaction patterns of cancer-related proteins, and design of antimicrobial peptides for replacement of traditional antibiotics. The courses are taught by teachers who are all active researchers, and are just as eager to share their expertise as they are responsive to student ideas.

You will have access to large instrument facilities, giving you the opportunity to develop extensive lab skills and participate in exciting projects. You will also practice your communication and teamwork abilities. The programme concludes with a degree project carried out in close collaboration with researchers in academia or at a company.

After graduation, your lab experience and thorough understanding of molecular interactions will open career doors to the life science industry and the growing area of biological pharmaceuticals, as well as to hospital laboratories and chemical analysis companies. You will also be qualified to continue your academic careers in further studies and develop an equality perspective for learning.

Linda Sjöstrand
Sweden - PhD student in Medical Science, Sweden, LIU

I have always heard good things about Linköping University and this programme interested me, so it was a natural choice. I appreciated that courses were offered by two faculties, as this gave me a wider perspective on the role of proteins and how they are studied. What I liked the most was the opportunity to do a 60 credits master’s thesis. I wrote mine in collaboration with two research groups, and had the time of my life!

Adult Learning and Global Change

Degree: Master of Arts with a major in Adult Learning Credits: 60
Duration: Two years Pace of study: Part-time Campus: Online (distance learning) More info: liu.se/globalchange
Tuition fees: Approx. USD 11,000/EUR 9,000 (SEK 96,000) per academic year (for non-EU citizens)

Be part of an award-winning adult learning global network initiative.

Governments all over the world are urging citizens to train and educate themselves in order to stay competitive in a connected world. Critical discourses on globalisation require the ability to learn in situations that span vast cultural and geographic divides. Our programme is for those who wish to understand adult learning in the framework of global change within a unique digital learning format that has won international acclaim.

This master’s programme enhances students’ ability to work in a globalising world and to challenge the traditional perspectives on globalisation. Our programme is an equal collaboration with universities in Canada and South Africa. All course activities will be done within a digital learning platform, where you will learn together with students from the partner universities in a global class, making the programme truly international. The courses contain topics such as, for example, locating oneself in global learning, adult learning: contexts and perspectives, global/local learning, and understanding research. In the end of the programme, the students will also write a MA thesis.

Our graduates will be able to learn and teach globally, use global connective asynchronous technologies, understand knowledge-based societies and their implications for learning, understand globalization discourses, develop cultural sensibilities and sensitivities and develop an equality perspective for learning and reframing their own professional practices. They may also continue their academic careers in further projects.

Kamila Hoffman
New Zealand - Learning and Development Consultant, Vodafone

I absolutely loved becoming part of the global community, learning and sharing knowledge and experiences. Critical reflection is essential and really encourages students to develop a thoughtful perspective on their learning and practice in order to develop professionally. In order to keep up to date as a professional you need to continuously learn, reflect and review your practice.
Outdoor and Sustainability Education

Discover the educational potentials of leaving the classroom and exploring the surroundings.

All children deserve the opportunity to learn and reach their full potential. This master’s programme will increase your knowledge about learning processes in a school context, with a focus on experience-based learning. In these advanced courses in educational science, theory and experiential learning increase teachers and other educators understanding of how a variety of outdoor environments can be used as resources for learning and knowledge.

Outdoor education is a diverse field of research and practice. This programme derives from the Scandinavian perspective on outdoor education - the concept of “uteskola”, literally meaning outdoor school. Here the school syllabus is taught outdoors on a regular basis, supported by indoor learning. You will broaden your professional expertise as a teacher by training to use outdoor environments for teaching and learning.

Examples of educational settings come from preschool up to secondary school. You will improve your theoretical and practical knowledge on how to take your school subjects and teach them outdoors, in natural as well as urban environments. Learning theory and theory about place are the underpinning rationales for practical experience. You will have the possibility to focus on your particular interest and field of practice.

One essential question in societies worldwide is how to sustain our planet’s functions and resources and at the same time improve well-being for a growing population. Environmental and sustainability education focusses on possible ways to work with the knowledge, skills and values needed to contribute to and participate in a sustainable society.

As a graduate, you will be able to work with pedagogical development in schools or other educational fields in society. The programme also prepares you for future PhD studies and research.

Musa Baldeh
Gambia - Alumn from Outdoor and Sustainability Education

Studying Outdoor and Sustainability Education at Linköping University was a game changer and a lifetime experience. I gained a great deal of knowledge and skills in outdoor education at the university, but that aside, I have also developed very good research skills which will guide me in the future, especially in outdoor education. I know anyone who enrolls on this program will have no regrets about doing so.

Ageing and Social Change

Let’s build a sustainable society for an ageing population.

A longer living population presents global challenges and opportunities that affect every aspect of our lives such as welfare, the environment, health, finance, housing, and employment. Gaining a profound understanding of the potentials and challenges of ageing is crucial for the well-being of mankind and the sustainability of society. Skilled experts to tackle the global social, economic, health, political and cultural issues of ageing will be needed to support public agencies, civil society and private corporations in addressing the challenges of an ageing population.

The interdependencies between policies, welfare institutions, populations’ dynamics and individual lives are at the heart of this programme. It offers a broad curriculum in policy-oriented ageing research and addresses several policy areas such as the welfare state, life-course policies, pensions, health and care, family, and intergenerational relations. Teachers from a range of academic backgrounds will enable you to acquire a globally attractive and unique education.

Together we will seek answers to the complex questions facing society today with regards to both individual and population ageing, through a truly interdisciplinary perspective, combining up-to-date research and methodology.

The approach taken during the programme enhances interactive teaching and communication, based on a hybrid model of digital learning that includes both classroom teaching and distance learning. You can choose either on-campus learning or distance learning with a few on-campus periods. The programme is offered as a one-year option, 60 credits, and as a two-year option, 120 credits.

Regardless of whether you are about to start a career or to further develop your professional expertise, the programme will offer you the ability to generate social impact. The programme will lead you to become the next generation of managers, advisors, decision-makers, experts, and researchers.

Indre Genelyte
Sweden - Sweden - Programme Director

Age matters! How to meet the challenges of the longevity society in a changing world? The answer to this question is crucial for the well-being of mankind and the sustainability of contemporary societies. LiU’s new and innovative Ageing and Social Change master’s programme is the first of its kind in Sweden, giving our students a head start in an important area that affects all parts of society.
**Applied Ethics**

**Degree:** Master of Arts with a major in Applied Ethics  
**Credits:** 60  
**Duration:** One year  
**Pace of study:** Full-time  
**Campus:** Linköping  
**More info:** [liu.se/applied-ethics](http://liu.se/applied-ethics)  
**Tuition fees:** Approx. USD 8,000/EUR 7,500 (SEK 80,000) per academic year (for non-EU citizens)

**Tackle life’s big questions with applied ethics.**

Modern societies face many new challenges. Globalisation raises questions of global justice, new technologies has implications for decision making in healthcare concerning life and death, climate change and environmental hazards challenge our responsibility for future generations. Applied ethics is a growing interdisciplinary field that strives to tackle the moral issues surrounding these challenges. If these questions engage you, this master’s programme will meet your aspiration.

The programme offers a complementary education at the master’s level in applied ethics for you who already hold a bachelor’s degree in one of various academic fields, from philosophy to health and technology, or a professional degree. The subject has its disciplinary basis in moral philosophy and ethics and requires knowledge and expertise in the various fields of application.

LiU’s centre for Applied Ethics (CTE) is a leading centre in applied ethics in Sweden. We are devoted to research and teaching on globally relevant topics with collaborative partners worldwide.

You will gain knowledge of ethical theories and methods and examine ethical debates in different fields of application. You will acquire the skills to provide analysis of moral problems and ethical debates and be able to make critical assessments of ethical arguments and policy documents. In the latter half of the second semester, you will concentrate on a selected area of specialisation.

When you graduate, you will have a unique competence that you can add to your professional or disciplinary competencies; doctor or nurse, teacher, minister, civil servant or economist, many professionals need the ability to manage ethical issues. A great number of our graduates continue to doctoral studies in different areas of applied and professional ethics.

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**Business Administration**

**Degree:** Master of Science with a major in Business Administration  
**Credits:** 120  
**Duration:** Two years  
**Pace of study:** Full-time  
**Campus:** Linköping  
**More info:** [liu.se/business-administration](http://liu.se/business-administration)  
**Tuition fees:** Approx. USD 9,500/EUR 9,000 (SEK 95,000) per academic year (for non-EU citizens)

**The world needs leaders with good knowledge and judgement, who can make well-balanced decisions.**

The international environment presents a series of opportunities and challenges in scale, uncertainty, ambiguity and complexity. Navigating these waters requires not only analytical skills in management, but also a reflective and creative mindset and good judgement.

The programme combines fundamental academic knowledge (thinking and reasoning) and experiential knowledge (skills) to prepare students to go beyond applying known solutions to known problems. It also encourages them to grow as a human being. We train for analytical excellence, for reflection and creativity, and for personal growth. As a Strategy and Management in International Organisations (SMIO) student you will be expected to work hard. You will join an exclusive and diverse group of students from all corners of the world.

Upon successful completion of the programme, students will have acquired excellent analytical skills, the ability to think strategically, and relevant experience for work in international organisations. Our graduates are competent analysts and competitive candidates for employment in international organisations in general. Among our alumni we find consultants, business analysts, innovation strategists, marketing and brand executives, HR specialists and project managers. Some alumni have started their own businesses, while others have chosen to pursue an academic career through doctoral studies. As a graduate you will join an alumni network of around 400 individuals in all parts of the globe.

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**Rosalie Waelen**

**The Netherlands – PhD Candidate in ethics of technology**

I realised that being an ethicist is more than just applying theories to practice. I recommend that you think ahead about what practical issues interest you most. You can really use all the assignments to create your own specialisation or profile. LiU offers a great environment to study in. There is a vibrant student life, great study facilities, and a lot of opportunities to enjoy nature and Swedish culture.

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**Kristina Liepone**

**Lithuania – Sales representative at the Finnish company Lindström Group in Stockholm, and simultaneously running her own business LieponEvent AB.**

SMIO matched my interests perfectly! The courses were planned in a structured way and time was given for both lectures, self-reflections, individual studies and teamwork. The atmosphere was fantastic with individuals of different ages and from different regions of the world. We became like one big family helping, supporting and encouraging each other.
Computational Social Science

Degree: Master of Science in Computational Social Science  
Credits: 120

Duration: Two years  
Pace of study: Full-time  
Campus: Norrköping  
More info: liu.se/css

Tuition fees: Approx. USD 9,500/EUR 9,000 (SEK 95,000) per academic year (for non-EU citizens)

Use statistical and computational methods to understand society and human behaviour.

The increased integration of technology into our lives has created unprecedented volumes of data on everyday human behaviour. Troves of detailed social data related to choices, affiliations, preferences and interests are now digitally archived by internet service providers, media companies, other private-sector firms, and governments. New computational approaches based on predictive modelling, agent-based simulations, text analysis, and network science make it possible to analyse these data in insightful and novel ways.

This is a chance to develop skills in cutting edge computational techniques alongside a strong grounding in the principles and practice of contemporary social research. The programme’s quantitative methods training will help you harness complex data and use them to explore social theories and fundamental questions about human societies. The programme’s theoretical and substantive training will introduce you to the principles of social inquiry and theories of human behavior, and help you apply your technical skills to pressing social issues such as ethnic segregation in schools, income inequality, entrepreneurship, political change, and cultural diffusion.

The skills you develop in social theory and data analysis during the programme are relevant for careers within the private and public sectors alike. Graduates will be qualified to pursue social science research in a number of different roles: data analyst, marketing analyst, sales researcher, data-driven policy support and analyst, etc. After graduation, you will also qualify for many doctoral programmes.

Elida Ibrahim
Malaysia - PhD Candidate in sociology

Moving to Sweden to me was like moving to the future! Here, instructors respect and value students’ input, and this is reflected in the way they teach and interact with students. Take advantage of the access you have to your instructors! The combination of having international faculty who are experts in their field and small class sizes meant that we had a lot of opportunities to discuss ideas and have meaningful one-on-one interactions.

Child Studies

Degree: Master of Science with a major in Child Studies  
More info: liu.se/child-studies

Duration: One/two years  
Credits: 60/120  
Pace of study: Full-time  
Campus: Online distance learning with periods of instruction on campus

Tuition fees: Approx. USD 8,000/EUR 7,500 (SEK 80,000) per academic year (for non-EU citizens)

Challenge conventional views on children and childhood.

This master’s programme is interdisciplinary and focuses on the critical study of questions related to children and childhood.

Courses explore various areas: children’s rights, parents and the family, education and school, migration, culture, the media, and health. You will deepen your knowledge of theoretical perspectives and methodological approaches in child studies. Our core focus is how to apply the latest research findings in order to critically review, develop and improve policies and practices related to children and childhood.

The programme is hosted by an internationally renowned research department, which has conducted research in child and childhood studies since 1988. The teachers are active researchers, which guarantees that cutting-edge knowledge is presented. A master’s degree in Child studies will prepare you for a range of positions and tasks within governmental authorities or local organisations, both governmental and non-governmental, whose activities affect children and their living conditions. The programme also prepares you for designing, planning and conducting research that concerns children, childhood and families.

The programme can be taken in one or two years. Each year is concluded with a 15-credit master’s thesis. The programme is primarily taught online with the aid of a digital learning platform, but there are two on-campus periods of duration 2-5 days in the first year and one in the second. This allows for some flexibility as to where and when you conduct your studies. The programme has high academic standards, however, and requires students to commit full time to their studies.

Ronja Ulf fot

The programme is focused on critical thinking and reflection rather than just learning facts. I got to understand the concept of children and childhood from many different theoretical perspectives. It really broadened my horizons and has been very useful in my current career. It was superb to get to know so many people from different countries who were also taking the course – the discussions were always very dynamic.
Ethnic and Migration Studies

Degree: Master of Arts with a major in Ethnic and Migration Studies  Credits: 120
Duration: Two years  Pace of study: Full-time  Campus: Norrköping  More info: liu.se/ethnic-migration-studies
Tuition fees: Approx. USD 8,000/EUR 7,500 (SEK 80,000) per academic year (for non-EU citizens)

Make your commitment matter.

You are dedicated to help tackling some of the most challenging issues in today’s world. This unique master’s programme relates ethnicity and migration to global economic and cultural change, and to systems of domination and resistance movements.

You will sharpen your skills in analysing the causes of migration, as well as its consequences for emerging formations of race, gender, labour, citizenship, healthcare, welfare and culture.

The programme is interdisciplinary, integrating the humanities and the social sciences. In true LIU spirit, there is a strong commitment to problem-solving, critical and innovative approaches.

You will learn how migration shapes society, from a historical and sociological point of view. Our dedicated students reach in-depth knowledge in the field of intersectional migration studies.

You can tailor your education towards a special interest, profession or field of expertise, by choosing elective courses, studies abroad and internships.

The studies take place on our beautiful Campus Norrköping. Ethnic and migration studies is a strong interdisciplinary research field at LIU. It is pursued at different institutes, departments and units, notably REMESO – the Institute for Research on Migration, Ethnicity and Society, one of Europe’s top institutions in ethnic and migration research.

In your courses you will meet teachers who are all doing research in the areas that they teach in. This means that courses provide an in-depth orientation of knowledge and analysis of each field and insights into the production of new knowledge. The programme offers direct contact with ongoing research.

When you graduate, you’ll be qualified for positions in local, national and international organisations, administration, business, government, media and the cultural sector, as well as for further postgraduate studies and research.

Hannah Atkins

South Africa – Research Intern at the Studies in Poverty and Inequality Institute

I enjoyed the interdisciplinary nature of my degree. We covered everything from history, literature and culture to labour market relations, gender, health and nationalism. It was a fascinating MA that gave us a broad knowledge in so many different facets, and exposed us to a wide range of thinkers – not just those of Europe. And I received such fantastic support from my lecturers, which really made a difference in my enjoyment and success.

Gender Studies – Intersectionality and Change

Degree: Master of Arts with a major in Gender Studies, specialisation Intersectionality and Change  Credits: 60/120
Duration: One/two years  Pace of study: Full-time  Campus: Online distance learning with periods of instruction on campus.  More info: liu.se/gender-studies  Tuition fees: Approx. USD 8,000/EUR 7,500 (SEK 80,000) per academic year (for non-EU citizens)

Become an agent for change.

This one-of-a-kind master’s programme makes you highly skilled in analysing how social and cultural change can be initiated or sustained by integrating a critical understanding of gender and intersectionality.

The programme focuses on intersectional gender, i.e. gender and its interplay with other social categorisations and power differentials such as sex, ethnicity, class, nationality, sexuality, age, and (dis)ability.

If you are passionate about cutting-edge research developments in transdisciplinary Gender Studies and are attracted by the idea of challenging existing norms and structures in society – this is the programme for you. A key ambition is to build an understanding of the links between theory, activism, professional development and career paths. Students taking the programme usually have a wide range of educational and professional backgrounds, e.g. in cultural studies, philosophy, media and communication, sociology, pedagogy, history, psychology and political science. The programme is offered as a one-year option, 60 credits, or a two-year option, 120 credits.

To give you the latest update on current research, we invite you to take part in seminars at the internationally renowned Unit for Gender Studies. This is one of the largest interdisciplinary research and teaching units for intersectional gender studies in the Nordic countries.

The programme combines online distance education with two mandatory on-campus gatherings per academic year. You will interact with your teachers and fellow programme members in a digital classroom. The forms of instruction, which are based primarily on the use of the internet, place greater demands on your own activity than a purely campus-based programme.

You will be equipped for a career in higher education and research as well as professional work with intersectional gender in organisations, media, communication and politics. This programme is also appropriate for you who want to boost your current career through further training within gender work.

Lisette Frandsen Albrechtsen

Denmark – Gender Analyst at United Nations Development Programme, Jordan

The reason I chose Linkoping University is because of Sweden’s track record in gender studies and being known for taking this area of study very seriously. The studies definitely helped me perform my job as a Gender Analyst with UNDP. I gained so much knowledge during my time at LIU and I appreciated to have enriching discussions between students and professors.”
International and European Relations

Degree: Master of Social Science with a major in Political Science, specialisation International and European Relations
Credits: 120  
Duration: Two years  
Place of study: Full-time  
Campus: Linköping  
More info: liu.se/international-relations

Tuition fees: Approx. USD 8,000/EUR 7,500 (SEK 80,000) per academic year (for non-EU citizens)

Investigate the challenges of International and European relations in politics and global governance.

This programme approaches issues related to International and European relations in the context of an international society and global governance, with a special focus on Europe’s role in world affairs. The double focus on international and European relations makes this a unique master’s programme, offering you a competitive edge.

The curriculum consists of a wide range of topics, covering the latest updates from this intriguing field. You will get an excellent grasp of topics like international law and security, European institutions and Europe’s external relations, theories of international relations, contemporary issues of international governance, and research design and methodology.

During the third semester, students have the option of either taking courses focused on global governance or pursuing a guided internship with an organisation of relevance for international or European relations.

Throughout the programme you will develop the capacity to understand the history, theory and contemporary implications of international and European relations, as well as the forces that drive developments.

By the time you graduate you will have an independent, critical approach to complex global, and specifically European, issues. Furthermore, you will gain the skills and knowledge to contribute actively to important developments, either as practitioners or as researchers.

The programme prepares you for a career in government institutions and in international public organisations, as well as in the private and non-governmental sectors. Graduates from the programme can be found today in such institutions, working with various aspects from running policy programmes to scientific research. The courses also provide a solid foundation for further studies and research towards a doctoral degree.

Chloe Beemer
USA – Consultant and Research Analyst

It was challenging, yet relaxed. My favorite part was the semester where they offered you the opportunity to seek an outside internship. This gave students access to a professional network prior to graduating. You should get to know your course mates, their success is your success. Also don’t be afraid to try any of the gross foods, except sustromming, don’t eat that.

Strategic Urban and Regional Planning

Degree: Master of Science with a major in Urban and Regional Planning  
Credits: 120  
Duration: Two years  
Place of study: Full-time  
Campus: Linköping  
More info: liu.se/strategic-planning

Tuition fees: Approx. USD 9,500/EUR 9,000 (SEK 95,000) per academic year (for non-EU citizens)

Planning for the cities and regions of the future.

Our cities and regions are currently facing challenges related to climate change, globalisation, urbanisation, digitalisation and social inequality. Strategic urban and regional planning is one of the most powerful local instruments to (re)shape long-term urban and regional development and create sustainable cities and regions of tomorrow. The programme provides you with the opportunity to advance your knowledge about societal change and enhance your abilities to engage in complex planning processes and agendas, in collaboration with citizens and other stakeholders. It ranges across several fields and targets students wanting to develop an interdisciplinary perspective to current societal problems. The emphasis is on regional development challenges in European countries.

The programme prepares you for a career as a planner, strategic planner, environmental strategist, plan manager, traffic planner, comprehensive planner, or research institutes in Sweden or abroad. The programme provides you for a career as a planner, strategic planner, environmental strategist, plan manager, traffic planner, comprehensive planner, region developer, project management within planning or external analyst. You will be qualified for positions in regional associations, county councils, various government agencies, private enterprises, and non-profit organisations. You will also qualify for doctoral programmes.

Wenjing Wang
China - Current student

Planning for cities and dealing with the challenges of sustainability and climate transformation is very important under the circumstance of globalization. I would like to play a role in this process and plan for smart cities in the era of digitalization. Linköping University support me in this ambition. It provides me with the academic and theoretical knowledge and I have learned how to corporate with others by participating in the group works.
Experimental and Industrial Biomedicine

Degree: Bachelor of Science in Medical Biology  Credits: 180
Duration: Three years  Pace of study: Full-time  Campus: Linköping  More info: liu.se/biomedicine
Tuition fees: Approx. USD 16,000/EUR 14,000 (SEK 147,000) per academic year (for non-EU citizens)

Developing the biomedical research leaders of the future.

LiU offers the first international bachelor’s programme in Sweden that combines project management skills with practical research techniques in the field of biomedicine. The programme has been designed in partnership with world-leading pharmaceutical and biotech companies to ensure that our graduates have the knowledge and skills required to work at the forefront of biomedical research and innovation.

This bachelor’s programme provides deep theoretical knowledge and practical experience of state-of-the-art research techniques in fundamental biomedical fields such as cell and molecular biology, medical biochemistry, physiology, and pharmacology. It also presents novel areas such as drug discovery, systems biology, bioinformatics and digital pathology. Throughout the programme, you will work in project-driven courses to apply your knowledge.

To ensure that you can translate research breakthroughs into clinical products and services, the programme trains students in the latest approaches in project management, clinical trial design, bioentrepreneurship, drug regulation and medical ethics. You will also have the opportunity to spend an entire semester carrying out research at LiU or at one of our industrial partners, in Sweden or abroad. By educating our students in the theory and practice of innovative biomedical research as well as research management, we aim to develop through this programme the biomedical research leaders of the future.

Anna Fahlgren
Sweden - Professor and Entrepreneur

Based on my own experiences as a medical researcher with close collaboration with Faculty of Science and Engineering and the life science sector, we designed a bachelor’s programme in experimental and industrial biomedicine. Our aim is to prepare students with solid knowledge in the field of biomedicine together with skills in project management and bioentrepreneurship.
How to apply

The application must be made online, through the national application service: universityadmissions.se


Admission requirements for master’s programmes

• A bachelor’s degree from an internationally recognised university.
• Proof of English language skills, e.g. TOEFL, IELTS.
• The specific requirements stated for each programme.

Bachelor’s programme

Information about application and admissions requirements for our bachelor programme is available on the website.

Tuition fees

Citizens from countries outside the EU/EEA and Switzerland must pay tuition fees for higher education in Sweden. For more detailed information please check universityadmissions.se

Included in the fees

The Swedish state's insurance FAS+, including accident and property cover.

Approximate fee levels

Generally, fees are between SEK 80,000 and 136,000 per academic year. Citizens of EU/EEA and Switzerland do not have to pay tuition fees.

Scholarships

Every year LiU offers scholarships to new students with excellent academic results, usually representing a tuition fee waiver of 50%.

To qualify you need to:

• Apply for an international programme in time.
• Choose the programme at Linköping University as your first priority (ranked as no. 1 out of 4).
• Apply for a LiU International Scholarship on our website once you have been admitted to your choice in the Notification of Selection Results.

Must be admitted

Only admitted students will be considered for scholarships. For more information go to: liu.se/scholarships

Accommodation

It is important to start looking for accommodation as soon as you seriously intend to study at LiU.

Useful tips

• Register with different housing companies in order to gather queue points. The sooner you join the waiting lists the more accommodation options you will have.
• Book alternative short-term accommodation if you arrive out of hours.

For more information on how to search for housing go to: liu.se/en/article/accommodation

Our support

Our university services can help you with:

• Student Health Care
• Language support
• Study guidance
• Student unions and organisations
• Study areas and group rooms
• Computer labs
• Equal opportunities policy
• University Chaplaincy
• Rooms for reflexion

And lots more that you can find easily at Studenthuset.

Doctoral studies

Doctoral studies are free of charge and cover many disciplinary areas. Positions become available throughout the year and, in most cases, are remunerated.

General entry requirements

• A university degree in the same area as the intended field of study.
• A degree thesis presenting the results of independent research
• Good command of English, for some subjects also Swedish.

Specific requirements

As well as general entry requirements there are specific requirements for each available position. For more information on doctoral studies go to: liu.se/en/research
CHECK US OUT ONLINE!

Webinars
Do you want to know more about study opportunities, a programme, how to apply or what it is like to study at Linköping University? Join us for a free webinar.

Life at LiU - Student blogs
We give you tips and hints on how to make the most of your time as an international student at Linköping University. All of our content contributors are current international students sharing our thoughts, experiences and unique perspectives.

Podcasts - Fika with us
The podcast “Fika with us” is for international students who are considering Sweden and Linköping University for their studies abroad as well as for those who are already here.

Location

Linköping and Norrköping are situated in East Sweden, a couple of hours south of Stockholm. The region has lots to offer in terms of landscape, innovation and business opportunities, talent attraction and more.

One university, three cities
- Linköping is Sweden’s fifth largest city with a well-developed business sector but also the charm of a smaller town.
- Slightly smaller, Norrköping has a lively cultural scene, including lots of live music venues.
- In both cities, everything is within walking distance and it is very easy to find something fun to do.
- Campus Lidingö in Stockholm offers undergraduate programmes in Furniture Design, Cabinet-making and Furniture Upholstery.

East Sweden
The region is home to several internationally well-known companies, including Saab, Toyota Industries Europe, IFS, Siemens, Holmen Paper and BT Industries.

Getting here is easy!
There are several flights between Amsterdam and Linköping every week.
YOUNG. BOLD.