

CHALMERS UNIVERSITY OF TECHNOLOGY

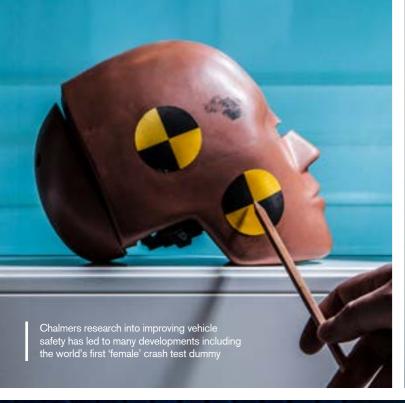


AVANCEZ - FORWARD SINCE 1829

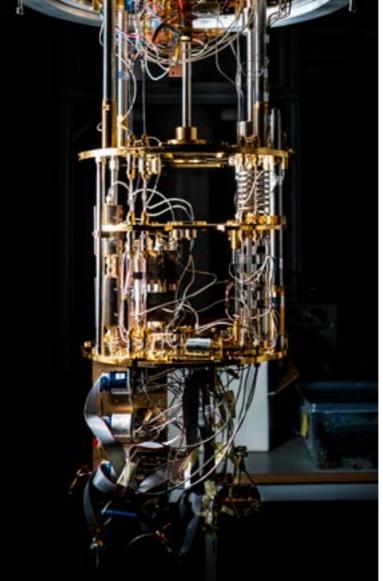
Chalmers University of Technology in Gothenburg conducts research and education in technology and natural sciences at a high international level.

With scientific excellence as a basis, Chalmers promotes knowledge and technical solutions for a sustainable world. Through global commitment and entrepreneurship, we foster an innovative spirit, in close collaboration with wider society.

Chalmers was founded in 1829 and has the same motto today as it did then: Avancez – forward.



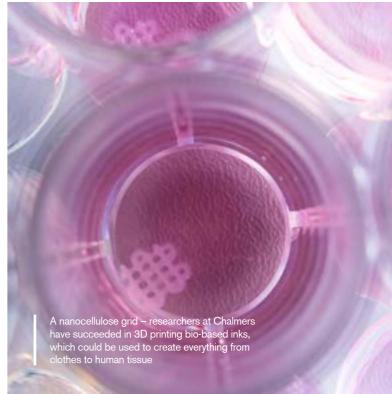




The quantum revolution: Chalmers is the hub for a billion SEK research programme which aims to turn Sweden into a world leader in quantum computing









We welcome you to join us on our journey towards a better world!

"We live in a rapidly changing world. The great challenges we face require collaboration across boundaries of many different kinds. We at Chalmers have a vital role to play – producing and spreading knowledge, expertise and solutions for the benefit of everyone.

In this respect, the education we provide is one of our most important contributions to society – alongside our top-class research, and close partnerships with key players in industry and the public sector."

Martin Nilsson Jacobi
President and CEO

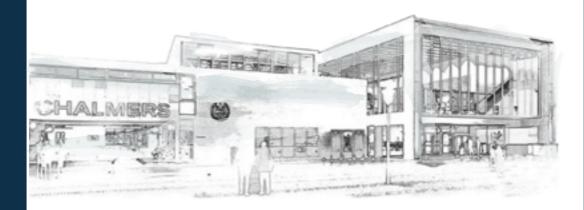
AN EDUCATIONAL SMORGASBORD

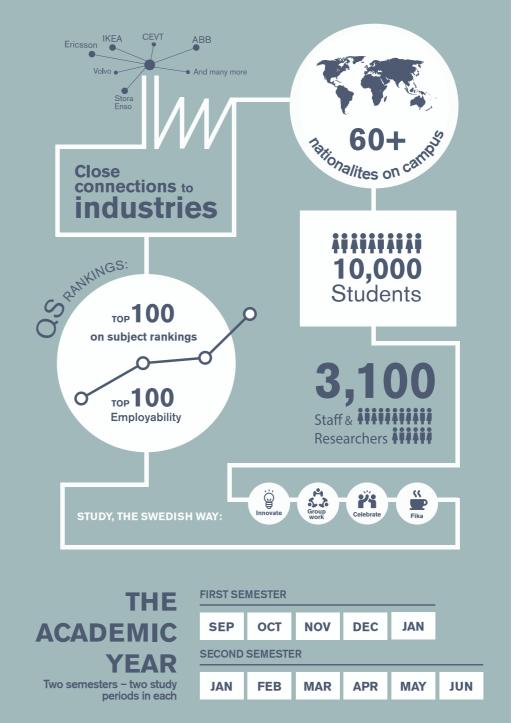
Chalmers offers a comprehensive technological and scientific education, from bachelor's level to master's and doctoral degrees.

When you study at Chalmers, you learn to think independently, and to use engineering methods to tackle future challenges. We encourage your creativity, and believe in the importance of free thinking, letting you test your own ideas for real.

To facilitate openness and cooperation between students and teachers we pursue a truly informal atmosphere, with a non-hierarchical structure. Sustainability, entrepreneurship and equality are essential aspects of everything we do.

Through project-based assignments, we provide hands-on, collaborative experiences, focusing on applying theoretical knowledge to solve current and future problems. We have excellent connections with many relevant industrial and social partners, ensuring that our research and education is always closely linked to real-world challenges and applications.

















TIMELINE



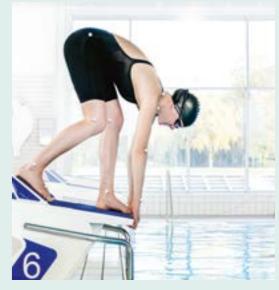
BACHELOR'S STUDIES

Chalmers is one of the best-known and highest-rated universities in Sweden. We offer around 30 bachelor's programmes, and each year thousands of the best students from around the country begin their studies here.

With a full range of programmes in engineering, science, shipping and architecture, Chalmers is a key player in providing Swedish industry with the talent it needs. Multiple generations of prominent Swedish engineers, scientists and CEOs have been educated here since the founding in 1829. All the bachelor's programmes are conducted in Swedish, and therefore fluency in Swedish or another Scandinavian language is required.

The fifth semester of bachelor's programmes is done in English, and students have an opportunity to take an exchange period abroad.





Chalmers is one of several 'Riksidrottsuniversitet', or National Sports Universities, in Sweden. This arrangement offers elite athletes the chance to combine their studies with the flexibility needed for training and competitions. Many top athletes in different kinds of sports study at Chalmers.



MOVE

I knew already that Chalmers was a good school. In Norway, it has a strong reputation – people usually say 'if you study in Sweden, you should go to Chalmers!'. As a member of the Norwegian national orienteering team, the sporting setup is really important for me – I need a lot of time for competitions and training. This year I've travelled to Switzerland, Denmark, and even China for the World Cup, and I've been able to plan my exams around these commitments. The arrangement also offers support through sports psychologists and nutritionists, for example.

I really enjoy studying here. The teaching is high quality, and very effective. It is challenging, and fast paced, but things are always introduced in a smooth way, connected to what we have already studied.

VICTORIA HÆSTAD BJØRNSTAD is a Norwegian student from Oslo studying industrial economy. Students fluent in a Scandinavian language are able to study at Chalmers alongside Swedish students at the bachelor level. Victoria was attracted to Chalmers by its location, good reputation, and – as an elite level orienteer who competes for the Norwegian national team – the National Sports University setup was also particularly attractive for her.

I find Swedish people friendly, but people tell me that it is particularly true in Gothenburg! There is a great atmosphere in the city. It is a good size – I ride my bike everywhere, but the tram system is great too, and everything always feels close. I would definitely recommend coming to study at Chalmers!"

EXCHANGE STUDIES

Every year, students from all over the world come to Chalmers through exchange programmes. Studying abroad, experiencing a different educational culture and another way of life can be one of the most valuable experiences you can have as a student. Join us at Chalmers and exchange your world.

The process starts by contacting the exchange student coordinator at your home university to check if they have a relationship with Chalmers. All of our exchange programmes are based on bilateral agreements. The exchange period is usually for one or two semesters.

Chalmers participates in many different frameworks for exchange opportunities, from major international programmes such as Erasmus+, to exchange agreements with specific partner universities. In total we have relationships with hundreds of institutions worldwide.

I had an amazing time studying at Chalmers! I really enjoyed it and learnt a lot during the programme. I made many new friends, increased my knowledge and experience, and really gained new perspectives on the world. And I got to discover how beautiful Gothenburg and Sweden are. I had such a great time, and I definitely plan to come back again someday for further study, to work or to travel."

MARIZAL FANANI was an exchange student at Chalmers from Gadjah Mada University in Indonesia, studying food science within the area of biotechnology for 6 months. He hugely enjoyed his time at Chalmers and in Sweden.



AFONSO ANJOS is a student from Instituto Superior Técnico in Lisbon, Portugal, who came to Chalmers through the Erasmus programme and studied geotechnical and structural engineering. He found his time here very beneficial and it offered an interesting and favourable contrast with his experiences back home.

I think Chalmers puts a lot more emphasis on collaboration and teamwork than other universities, as well as on learning through practical work – it is a lot more applied, less theoretical. I think this has helped make me a more independent and proficient student and future engineer.

The quality and expertise of the professors here was extraordinary too. And they were so helpful with the students, they were always available to answer questions, even outside of university hours. The infrastructure at Chalmers is outstanding, with so many places to work and study. The campuses are so well-organised and tranquil."



TIMELINE

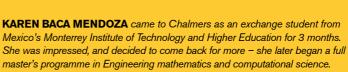
autumn semester



spring semester



Chalmers offers a fantastic preparation for your career. There's a great balance between academia and business – you have strong connections to research and industry here. The education is challenging, and you have a lot of independence, so you need to be on top of your work. But at the same time, I have had a lot of fun. It's a really international environment and I have made a lot of friends from around the world. And Swedish people are very open and international too. They are very happy to share their traditions and culture – to show off the Swedish way!"





MASTER'S STUDIES

Qualify for a global career with a master's degree from Chalmers. You'll be right at the cutting edge of your field, taught by people who are highly active in both research and industry.

Chalmers has excellent links with the business world, including local giants such as Volvo, SKF, and AstraZeneca. You'll receive guest lectures from important industry figures and make study visits to relevant workplaces.

We offer around 40 master's programmes taught entirely in English. We prepare our master's students for a truly international career, with our global focus attracting students from over 70 countries.

Chalmers is an exciting and dynamic university, where sustainability, innovation and an entrepreneurial outlook are vital parts of all that we do.



Whenever I read about new medical innovations at school, everything seemed to be coming out of Sweden. I knew it was a great place for innovation and that Chalmers would provide a lot of opportunities, both academically and in industry. Swedish people are so welcoming and friendly. I was asked to 'fika' or go on study dates all the time. Everyone speaks excellent English, which really helps!"

ILSA JUHLIN from Seattle, USA, studied

APPLICATION



All subjects except architecture: SEK 160,000/year | Architecture: SEK 210,000/year.

Cost of living: ca. SEK 10,000/month; proof required to obtain a residence permit.



General Entry Requirements:

A bachelor's degree, or certificate of ongoing studies, with a major in science, engineering, technology or architecture.

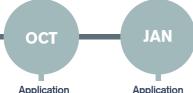
Specific Entry Requirements:

All programmes have specific entry requirements which candidates must meet.

TIMELINE

period opens

FEES



Chat with our students

Application period closes

Non-EU/EEA Applicants: Application Fee: SEK 900

APR Notification of selection results

Attend pre-departure

MAY SEPT Payment of tuition fees semester begins

Welcome and

90 min 20 on the written part IELTS Academic/UKVI: 6.5

no parts below 5.5

Language Requirements:

TOEFL iBT:

OUR PROGRAMMES

Sustainability is an extremely important part of everything we do at Chalmers, and we always strive to address it as a vital perspective in our education. All programmes last 2 years, are taught 100% in English*, and are worth 120 ECTS credits,

ARCHITECTURE

ARCHITECTURE AND PLANNING BEYOND SUSTAINABILITY

Reimagine the future of the built environment through real-life case studies and close collaboration with stakeholders.

ARCHITECTURE AND URBAN DESIGN

Gain the knowledge and knowhow to help tackle some of the most pressing societal, environmental and cultural challenges facing us.

AUTOMATION AND MECHATRONICS

SYSTEMS, CONTROL AND MECHATRONICS

Explore the world of complex, computer-controlled products and systems and help create an ever-wider range of applications.

BIOTECHNOLOGY AND CHEMICAL ENGINEERING

BIOTECHNOLOGY

Focus on the interface between chemistry, biology and medicine, using engineering principles as a unifying thread to analyse and manipulate biological systems for a wide spectrum of vital new and emerging applications.

INNOVATIVE AND SUSTAINABLE CHEMICAL ENGINEERING

Ensure sustainability and economic viability in commercial products and processes, refining modern chemical processes to make them as efficient, flexible, safe and environmentally friendly as possible.

MATERIALS CHEMISTRY

Use all the tools of chemistry to help develop and design the next generation of materials, and deepen your understanding of their properties - to make them lighter, stronger, cheaper, and more environmentally friendly than ever.

CIVIL ENGINEERING

DESIGN AND CONSTRUCTION PROJECT MANAGEMENT

Analyse and understand the challenges and changes facing the construction industry, learning essential tools, methods and theories.

INFRASTRUCTURE AND ENVIRONMENTAL ENGINEERING

Find sustainable solutions to urgent global challenges such as climate change and rapid urbanisation by mastering the planning, design, construction and maintenance of current and future infrastructure.

SOUND AND VIBRATION

Contribute to a better acoustic world, creating products and environments with beautiful sound and vibration characteristics as well as tackling harmful disturbances caused by unwanted noise.

STRUCTURAL ENGINEERING AND BUILDING TECHNOLOGY

Investigate issues relating to manmade structures and buildings, using modelling, analysis and design.

COMPUTER ENGINEERING

COMPUTER SCIENCE - ALGORITHMS, LANGUAGES AND LOGIC

Understand the complexity of the increasingly powerful computer systems which underpin our world by mastering the fundamentals of computer science.

COMPUTER SYSTEMS AND NETWORKS

Gain a solid grasp of computer systems and networks through an education both broad and deep, endowing you with the core skills essential to work in all areas of ICT.

HIGH-PERFORMANCE COMPUTER SYSTEMS

Acquire the cutting-edge skills and knowledge needed to help design the next generation of high-performance software and hardware.

*With the exception of Learning and leadership, which is taught in Swedish.

ELECTRICAL ENGINEERING

BIOMEDICAL ENGINEERING

Combine the design and problem-solving skills of traditional engineering with the medical and biological sciences.

EMBEDDED ELECTRONIC SYSTEM DESIGN

Learn to design, implement and verify advanced embedded electronic systems based on hardware and software.

INFORMATION AND COMMUNICATION TECHNOLOGY

Design, build and reimagine the communications systems of an interconnected future, preparing for an advanced engineering career in a constantly and rapidly evolving field.

SUSTAINABLE ELECTRIC POWER ENGINEERING AND ELECTROMOBILITY

Gain the deep technical competence and sustainable mindset essential to designing the electric power systems of the future.

WIRELESS, PHOTONICS AND SPACE ENGINEERING

Become a technology innovator, developing, innovating and paving the way for the cell phones, antennas, quantum computers, sensors, robots etc. of the future.

More than half of Chalmers graduates have job offers lined up before they even finish their degree. In the QS Graduate Employability Ranking 2022, Chalmers is ranked 83rd in Europe.

PHYSICS, MATHEMATICS AND ENVIRONMENT

COMPLEX ADAPTIVE SYSTEMS

Understand how to model and simulate complex systems, drawing inspiration from their behaviour to derive new advances and methodologies in all manner of fields.

ENGINEERING MATHEMATICS AND COMPUTATIONAL SCIENCE

Gain a solid foundation in a combination of mathematics, mathematical statistics and computational science, graduating with deep knowledge that will be in high demand in a number of areas.

INDUSTRIAL ECOLOGY

Analyse and develop sustainable technical solutions for tackling climate change, through understanding the immensely complex ways that land, materials, chemicals, and energy usage impact the planet and our societies.

NANOTECHNOLOGY

Dive down to the nanoscale, focusing on innovative knowledge in physics and chemical engineering.

PHYSICS

Operate at the forefront of technological innovation, contributing scientific solutions to problems both known and unknown, with extensive theoretical and experimental training in modern physics.

INDUSTRIAL ENGINEERING AND MANAGEMENT

ENTREPRENEURSHIP AND BUSINESS DESIGN

Apply and develop your knowledge, creativity, and entrepreneurial ability by working with real venture projects, in an environment where you will receive a true taste of entrepreneurship.

MANAGEMENT AND ECONOMICS OF INNOVATION

Learn to analyse, understand and skilfully manage innovation processes in companies and other areas of society.

QUALITY AND OPERATIONS MANAGEMENT

Acquire specialist knowledge and techniques for managing the improvement and change processes for both development and production which are crucial for competitiveness in today's global markets.

SUPPLY CHAIN MANAGEMENT

Gain a broad perspective of the complex processes behind global supply chains, graduating with the knowledge and knowhow to work across organisational boundaries.

MARITIME MANAGEMENT

MARITIME MANAGEMENT

Prepare to take up key leadership roles both onboard ships and in onshore organisations, and guide the shipping industry into a new era.

INFORMATION ENGINEERING

DATA SCIENCE AND AI

Take on a wide variety of data handling and analysis challenges, developing software for complex data and Al-related applications, and gaining a solid foundation in machine learning, statistics and optimisation.

INTERACTION DESIGN AND TECHNOLOGIES

Play a vital part in building the next generation of interactive digital applications, refining and improving the ways in which humans and machines interact.

SOFTWARE ENGINEERING AND TECHNOLOGY

Combine advanced technical skills with knowledge of methods, processes, and industrial activities, to gain a broad perspective of software engineering and design software.

MECHANICAL AND INDUSTRIAL DESIGN ENGINEERING

APPLIED MECHANICS

Learn to solve problems in solid, structural and fluid mechanics, master advanced modelling, computational and experimental techniques.

INDUSTRIAL DESIGN ENGINEERING

Learn to understand complex problems in industrial and societal design and create better products and services.

MATERIALS ENGINEERING

Explore the potential of new materials and ideas through a 'make and break' approach and understand the complexity of the problems in the field.

MOBILITY ENGINEERING

Help develop sustainable, high-performance solutions to meet the ever-changing demands and challenges in critical industries.

PRODUCT DEVELOPMENT

Master the multidisciplinary nature of product development while taking user needs and the full life cycle of a product into consideration.

PRODUCTION ENGINEERING

Get up-to-speed in the latest advances in modern production, acquiring the skills to improve and develop manufacturing processes and high-performing sustainable production systems.

SUSTAINABLE ENERGY SYSTEMS

Gain the skills and knowledge to work at the forefront of the coming revolution in sustainable energy.

TECHNOLOGY AND LEARNING

LEARNING AND LEADERSHIP - taught in Swedish

Train to become a secondary school teacher in a unique programme that combines your engineering skills with communication and collaboration.

Some graduates even go on to found their own companies. A strong entrepreneurial focus exists at Chalmers – Chalmers Ventures, our university business incubator, is in fact ranked top 10 in the world in its category.

DOUBLE MASTER'S DEGREE

Chalmers has agreements with several universities around the world to give students the opportunity to graduate with a double master's degree – one from Chalmers and one from the partner university.

There are also double degree opportunities available through the Nordic Five Tech partnership – a framework which includes the leading technical universities in Denmark, Norway and Finland, and KTH and Chalmers in Sweden.

Double degree students study one year at Chalmers and one year elsewhere.



MOOCs

An education for everyone

As part of our commitment to offering lifelong learning opportunities Chalmers has a variety of free MOOCs – Massive Open Online Courses, See the full offering at our digital campus. Chalmers X.



DOCTORAL STUDIES

26
GRADUATE SCHOOLS

Today, an increasing number of industrial and social challenges call for specialised and high-level research skills. A PhD can lead to significant future opportunities in both academia and industry and represents recognition from the international scientific community.

Chalmers provides a strong research environment with an international atmosphere. Our vision is to help contribute to a sustainable future, and that goal forms an essential part of all our activities in research, education and innovation.

Doctoral studies enable you to develop a research specialty and your own scientific concepts. Pursuing a doctoral programme helps you gain skills that are sought after by employers in all fields. You will develop your analytical skills, become a team player and a problem solver, and improve your communication and presentation abilities.

At Chalmers, we offer a highly attractive and competitive form of doctoral education. As a doctoral student you are hired by Chalmers. A doctoral position is a full-time temporary employment, generally limited to a maximum of five years. The position includes a monthly salary and doctoral studies are free of tuition fees.

Doctoral studies at Chalmers nurture your ability to carry out research of the highest international standards, for the benefit of a sustainable society. Our close connections with industry, and emphasis on applied research ensure that the education remains highly focused and relevant.

Research, learn, educate

Doctoral studies at Chalmers are a combination of individual research, studying courses, and teaching. The work is carried out through well-established research groups, with a supervisor

WOLFGANG KROPP is a

Professor in Applied acoustics at the Department of Architecture and civil engineering, who has acted as PhD supervisor for around 25 different candidates over the years. A very important principle for us at Chalmers is that our PhDs are employed. They are not just students – they are employees. They have the same rights as anyone else. That's very different from some places, where PhDs are often unpaid. All of our PhD positions are fully paid.

There are so many opportunities for industry collaboration, strongly linked to applied projects. In our department for example, we have people working with high speed trains together with Trafikverket (the Swedish transport authority), and people researching low-frequency sound in collaboration with major Swedish building companies. Chalmers' links to industry are a real strength.

It is very international too, among all the students and researchers. We try to get people from everywhere, to be very open and welcoming.

team led by an experienced researcher. Candidates choose their own range of activities with the help of their supervisors. Chalmers' research groups are highly international, providing great opportunities for carrying out part of your doctoral studies abroad.

Doctoral education in Sweden leads to a licentiate degree after around two and a half years, and a full doctorate after four to five years. The degrees are taken in scientific subjects linked to Chalmers' departments.

APPLICATION

The requirement for admission to doctoral studies at Chalmers is a degree awarded at advanced level (for example a master's degree), with a specialisation suitable for the doctoral subject. In addition, each graduate subject may have special course entrance requirements.

All of our doctoral student positions are advertised on Chalmers' website. View our Vacancies page to see all currently available positions.

Before coming here, I was working for two years, so I wanted to remain more hands-on, more practical. Chalmers seemed to offer that opportunity, and I certainly got a lot of that experience here.

There are so many connections to industry. I spent my summers working at ABB and have an ongoing relationship with them. When I started my PhD, Stefan Bengtsson, the University President at that time, gave a speech and talked again about the importance of relationships with industry. Hearing that said at every level shows how it's really a central theme here.

Doing a PhD at Chalmers has been really interesting. There is a difference in how you perceive your work, and how you are perceived. You are more like a member of the staff – there's definitely a distinction between being a student and being an employee here."







& societies

STUDENT LIFE

Outside of your studies, you'll find a rich and varied student life at Chalmers. The student body is very active here and organises many events all year round. Our two campuses are safe, welcoming places with plenty of opportunities to get involved in clubs and societies of all kinds.

The Swedish concept 'lagom' means roughly, 'just right', or 'in moderation', and is an essential approach to life here. Sweden is known for having a strong focus on work-life balance, and students are encouraged to keep a healthy balance between studying and enjoying social activities in their free time.

There is a wide variety of activities for students to participate in, whatever their interest. There are sports and fitness groups of all kinds, but also cultural and social activities. At Chalmers, we want everyone to feel welcome, and we pursue an open and inclusive atmosphere, where equality is an essential part of the culture.





As soon as I received my acceptance letter, I started looking for accommodation, and through a friend of a friend, I found this room, living with 6 other housemates. They were all Swedish, so it was the perfect opportunity to make friends and learn more about Swedish culture. We spent a lot of time together making food, playing sports, and having movie or game nights.

I feel like I have known my roommates a lot longer than I have! Moving into the collective was one of the best decisions I made since I came to Chalmers.

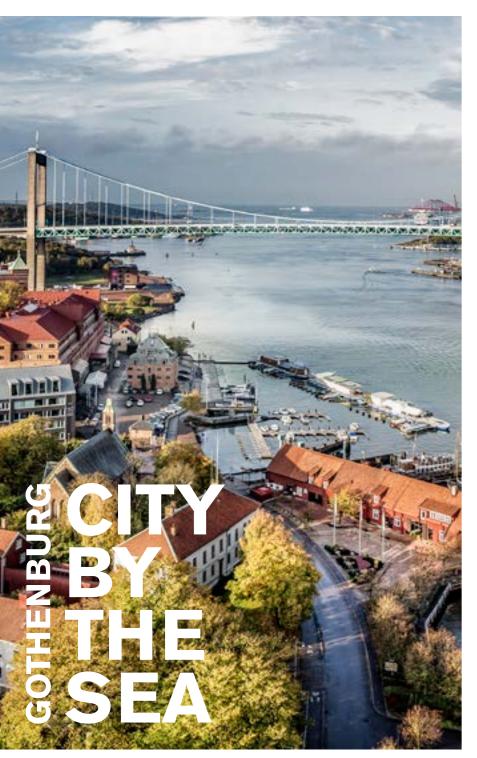
When it comes to socialising within the university, there are so many different options and activities available. I want to join the sailing club – I tried sailing for the first time this summer out in the archipelago, and I really want to learn more!

I would say Chalmers has a really strong sense of community, at all levels of the organisation. You really feel valued and recognised as an individual, not as just another student among thousands."



All fee-paying students are guaranteed an offer of accommodation in a student residence in Gothenburg. Non-fee-paying students will need to find their own accommodation.









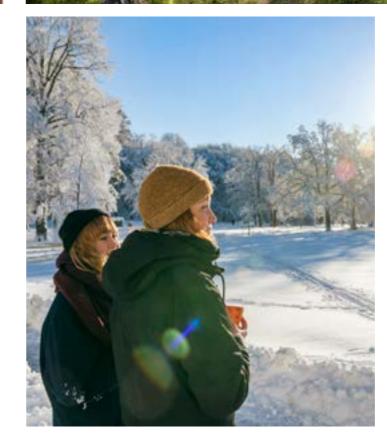


On the west coast of Sweden, Gothenburg is a perfectly sized 'big little city', with a population of around 600,000. There's plenty of cultural activities, a lively nightlife, and miles of natural green space, with forests, lakes, and a beautiful collection of islands, all within easy distance of the centre.

Chalmers' two campuses are right in the heart of Gothenburg, one on either side of the river, making the university well embedded into the life of the city.

The friendly, welcoming attitude here will ensure you quickly feel at home – Gothenburg has previously been voted 'the world's most sociable city'. And the locals speak excellent English, so everyday life is usually pretty straightforward here. It's easy to get around, with the famous blue and white trams covering the whole city. And with more than 800 kilometres of bike lanes, cycling is also a popular and safe option.

Known for its musical and artistic history, the city hosts many major events every year, including Scandinavia's largest film festival, its largest book fair, and even the world's biggest football tournament – the Gothia Cup.



THE MOST SUSTAINABLE CITY IN THE WORLD*

*Global Destination Sustainability Index

11 TRAM LINES covering nearly 200 kilometres of the city

313 Square metres of GREEN SPACE per inhabitant

800 KILOMETRES of BIKE LANES









When you study at Chalmers, you'll experience the Swedish way of doing things. Sweden is known for its open, progressive thinking, its commitment to equality and inclusivity, and for its innovative approach to business and technology.

THE SWEDISH WAY

Sweden has a unique business culture, which yields impressive results. Despite a small population of just over 10 million, it is home to an impressive number of globally recognised companies, including Ericsson, IKEA, Spotify, and H&M. The working culture is very open, and non-hierarchical. This is as true at Chalmers as it is in Sweden overall. Sweden's way of doing business has seen it ranked 3rd in the Global Innovation index 2022, and 9th in the Global Competitiveness index 2019.

But it's not all about work. Balance is important here. When you study at Chalmers, you'll see how seriously Swedes take their fun, how they value their social lives just as much as their work, and – what's more – you'll discover the true meaning of a Swedish fika...

If you are interested to find out more, don't hesitate to get in touch. We at Chalmers University of Technology look forward to welcoming you.

Come and join us!







