Brazil - Sweden

Brazil and Sweden have a strong relationship that goes back decades. For example, Ericsson introduced the first telephone in Brazil in 1891. Today Brazil is by far Sweden’s largest export market in Latin America. Over 200 Swedish companies operate in Brazil, including Saab, Ericsson, Electrochim, ABB, Scania, Volvo, Tetra Pak and SKF. And in fact, the “Little Sweden” that has developed in São Paulo is the largest centre for Swedish industry outside Sweden. Looking to the future, there are many exciting opportunities that face the two countries together. Scope for collaboration is great. Bilateral relations are considerable – and growing.

Aeronautics

One area of particular interest is aeronautics. Here both Brazil and Sweden are strong, each country with its own aeronautics industry. Linköping, with a well-established tech industry, is the aeronautics capital of Sweden and the home of Saab, a major employer in the region. Saab manufactures the Gripen fighter plane, which will be part of the Brazilian Air Force fleet. Saab and Embraer will collaborate to build and further develop the Gripen in Brazil. Saab and Linköping University are institutional partners and take part in many R&D projects within aeronautics, now also together with Brazilian stakeholders.

Dynamic Science Parks

Linköping is also home to the Mjärdevi Science Park, one of the most successful in Sweden, hosting over 260 innovative companies from start-ups to multi-nationals active in fields such as mobile broadband, image and visualisation, automotive safety, software and system development. Over a third are spin-offs from the university. And Norrköping has the Norrköping Science Park, featuring a cluster of almost 70 start-ups in interactive and visual media.

Linköping University

Linköping University (LiU) has its main campuses in the twin towns of Linköping and Norrköping, in southeastern Sweden. Internationally known companies with head offices or facilities in the Linköping region include Saab, Ericsson, Autoval, Siemens, Holmen Paper and BT Industries. The region is also known as a leading centre for sustainable development and cleantech. For more than ten years LiU has collaborated with local companies on projects for environmentally driven innovation. “We turn environmental problems into opportunities” is one of LiU’s mottos.

Innovators

Linköping University has worked with innovation in education and research since its foundation in 1975. It was the first Swedish university to embrace interdisciplinary thematic research, problem-based learning (PBL), graduate schools and several innovative study programmes. LiU graduates are particularly popular with employers, with an independent study showing that they are amongst the first in the country to gain employment. Linköping University, with 27,000 students at bachelor’s and master’s levels, and some 1,300 doctoral students, is one of Sweden’s largest and best ranked universities.

Quick facts on LiU

- 27,000 students
- Approx 1,300 doctoral students
- 120 study programmes, of which 24 are master’s in English
- 500 exchange agreements with universities in 50 countries

LiU in global rankings

- QS Top 50 under 50: 24
- QS World University Rankings: 286
- ARWU (Shanghai): 301-400
- ARWU (Shanghai): Engineering/ Technology and Computer Sciences: 76-100

LiU has a number of research contacts in Brazil within aeronautics, biotech, innovation, education and environmental change and sustainability.

Some of LiU’s partner universities in Brazil

Instituto Tecnológico de Aeronáutica (ITA), São José dos Campos
Universidade Federal do Rio de Janeiro (UFRJ)
Universidade Federal do ABC, Santo André (UFABC)
Centro Universitário do Fel, São Bernardo do Campo (Fel)
Universidade de São Paulo (USP)
Universidade Federal de Santa Catarina, Florianópolis (UFS)
In 2013 Brazil chose to purchase 36 of the Swedish fighter plane Gripen NG for its air force. The planes will be co-developed with Brazil, and the contract includes a large technology transfer for the next ten years. Linköping is Sweden’s aeronautics capital and Saab, the plane’s manufacturer, is one of LiU’s strategic industrial partners. LiU has a key role in education and research in aeronautics, contributing in key areas such as unmanned aerial vehicles (drones), computer vision, sensor fusion and artificial intelligence. LiU leads the Wallenberg Autonomous Systems Program (WASP), a Swedish research programme with a budget of SEK 1.8 billion (USD 210 million) over ten years.

Contact Aeronautics: Prof. Petter Krus, Dept. of Management and Engineering

Contact Autonomous Systems: Prof. Lars Nielsen, Dept. of Electrical Engineering

Computational Material Science
LiU conducts world-leading research in material science, including research on graphene, which is produced at LiU in a patented process. As well as research on low-dimension materials where the aim is to customise the material’s qualities for various applications. For over six years this research has been conducted in close collaboration with the Federal University of Bahia. The collaboration includes researcher and doctoral student exchanges, as well as supervision of doctoral students.

Contact: Ass. Prof. Gueorgui Gueorguiev, Dept. of Physics, Chemistry and Biology

Engineering Education
CDIO stands for Conceive, Design, Implement, Operate. The CDIO Initiative was developed at MIT in collaboration with three Swedish universities: LiU, KTH and Chalmers. At LiU, CDIO is included in all engineering programmes. LiU Prof. Svante Gunnarsson has given workshops on CDIO at Brazilian engineering schools and LiU’s Dept. of Electrical Engineering hosted two professors from IME, the Military Institute of Engineering in Brazil, who studied the use and implementation of CDIO at LiU’s Faculty of Science and Engineering.

Contact: Prof. Svante Gunnarsson, Dept. of Electrical Engineering

Environmental Change and Sustainability
Some 300 researchers at Linköping University work in environment and sustainability. From biology, chemistry, engineering, science, business, medicine, education, the social sciences and the arts, they join forces to address some of the biggest challenges facing us in the spheres of climate, environment and sustainability. LiU is home to cutting-edge research in the circular economy, and in the region are several examples of closed cycles and industrial symbiosis. For instance, waste management is linked to public transport. A close collaboration between LiU and the Federal University of Rio de Janeiro in order to understand natural balances of greenhouse gases is taking place since 2008.

Contact: Prof. Alex Enrich Prast, Dept. of Electrical Engineering

Innovation Management
LiU Vice-Chancellor (reitora) Helen Dannetun leads a network of some of Europe’s most innovative universities, and LiU trains more students in entrepreneurship than any other Swedish university. LiU’s divisions of Project, Innovation and Entrepreneurship (PIE) and Business Administration have extensive collaboration with Brazil, including courses in innovation management for the Brazilian Army and studies of knowledge transfer between Sweden and Brazil. A number of Brazilian students study innovation management at master’s and doctoral levels at LiU.

Contact: Ass. Prof. Nicolette Lakemond, Dept. of Management and Engineering

More Brazil-Sweden
- Only in the past year, over 10 Brazilian researchers have visited LiU and many more visits are planned for the coming years.
- A Sweden-Brazil Excellence Seminar gathered researchers from the two countries in May 2016. The seminar was a joint project between Capes and the Swedish Foundation for International Cooperation in Research and Higher Education.
- 300 Brazilian engineers are taking part in a one-year training programme at Saab on the development of the next generation fighter planes.
- LiU is an academic partner of Centro de Pesquisa e Inovação Sueco-Brasileiro (CISBE).
As a leading European university, Linköping University welcomes students who are prepared to challenge themselves. We provide a safe and eco-friendly environment, excellent study facilities and a fantastic student experience. We are dedicated to fostering an innovative mindset and an entrepreneurial spirit in our students, which gives them the competitive edge in the global market.

Helen Dannetun, Vice-Chancellor

Studying at LiU

"LiU is a key partner for Saab concerning recruitment, research and long term competitiveness. LiU has demonstrated its strength in combining high quality academic research and focus on industrial applicability. This serves as the foundation for the high relevance in education and students are well prepared when being recruited to industry. Further, the Saab and LiU aligned strategies for globalization opens up for unique collaborative opportunities."

Gunnar Holmberg, Director Research and Technology, Aeronautics at Saab AB

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Gunnar Holmberg, Director Research and Technology, Aeronautics at Saab AB

"For Brazilians the experience to study in Sweden can be very important for the student’s professional life. It’s a great opportunity to improve your English. The open environment makes everything accessible, with friendly professors and motivated students. Therefore I think Linköping University is a great place to develop team work skills; a great advantage considering that the global markets are always looking for good team workers."

José Adalberto Franca Junior, PhD Student at Linköping University

"Studying in Sweden changed my view on education methodologies; I felt constantly challenged by an environment in which creativity, independent work and research were considered a priority, along with lecture time in the classroom.

I wanted to shift my career towards sustainability science with an interdisciplinary approach. In this sense, Sweden was the most natural choice, as the country gathers the most important institutions and scientists in the field."

Rafaela Flach, Visiting Researcher at Bonn University, Master in Science for Sustainable Development

Our international students appreciate the international atmosphere on campus, as well as the access to committed teachers who are experts in their field. You will feel comfortable approaching, interacting with and asking open questions to your lecturers.

We encourage our students to take an active role in their own learning. We aim to stimulate independent, critical thinking, in preparation for their working life. And we help them develop their problem-solving skills, which are in high demand in the workplace.

"As the leading European university, Linköping University welcomes students who are prepared to challenge themselves. We provide a safe and eco-friendly environment, excellent study facilities and a fantastic student experience. We are dedicated to fostering an innovative mindset and an entrepreneurial spirit in our students, which gives them the competitive edge in the global market."

Helen Dannetun, Vice-Chancellor

Master’s degree studies

LiU offers 24 English-taught master’s programmes starting in August. Most are two years long and count for 120 credits (ECTS). See pages 10 & 11 for more information on master’s level studies.

Exchange studies

Exchange students are selected by their home universities and tuition fees are not charged. For more information, please contact the international coordinator at your home university.

Single-subject courses

LiU offers single-subject courses in areas such as the social sciences, environmental studies, humanities, education and medicine.

Doctoral studies

Doctoral students at Swedish universities are salaried members of staff who receive holiday pay, health insurance and pension contributions. Doctoral programmes are mainly research-programmes with a focus on the dissertation. Requirements are a completed degree at master’s level, language skills in English and, depending on the subject, in Swedish. Doctoral positions are listed at liu.se/jobba.
Life on Campus

WiFi, public computers, libraries

Wireless internet is available everywhere on campus. In addition, public computer rooms are available in many places on campus, of which some are available 24 hours a day. The Linköping University libraries offer access to a wide range of resources, both online and physical, such as books, journals and international databases. Students can also request books from other libraries across Sweden.

Food

LiU offers a good range of healthy restaurants and cafés. Or if you want to bring your own lunch, there are several lunch rooms equipped with microwave ovens.

Social life

The social scene at LiU is excellent, with a huge range of student events, such as parties, festivals, races and excursions. Meeting people and making friends is an important part of your university experience. So don’t wait for an invitation – make the first move. Talk to your roommate, neighbours, other people from your country and your classmates.

And look into the nearly 100 student associations on campus. You are bound to find a group that matches your interests. A good place to start is the Facebook page for Brazilians in Linköping.

3 companies with LiU roots

- Sectra – medical IT and secure communication
- IFS – business software
- Sciss – 3D visualisation for planetariums and dome theatre

3 LiU innovations

- The world’s first digital hearing aid
- The visualisation table, showing the human body in 3D
- Sensor technology used for instance in Kenya to protect rhinos from poachers
Linköping University offers English-taught master’s programmes in the subject areas listed below. Unless otherwise specified, they are two years long. The deadline for applications is 15 January.

### Engineering and Computer Sciences
- Aeronautical Engineering
- Biomedical Engineering
- Communication Systems
- Electronics Engineering
- Industrial Engineering and Management
- Intelligent Transport Systems and Logistics
- Mechanical Engineering
- Statistics and Data Mining

### Design
- Design

### Environmental Studies
- Science for Sustainable Development

### Natural Sciences
- Applied Ethology and Animal Biology
- Ecology and the Environment
- Experimental and Medical Biosciences
- Materials Science and Nanotechnology
- Organic Synthesis/Medicinal Chemistry

### Education
- Adult Learning and Global Change
- Outdoors
- Environmental Education and Outdoor Life (one year)

### Social Sciences and Humanities
- Applied Ethics (one year)
- Business Administration - Strategy and Management in International Organisations
- Child studies (one/two years)
- Ethnic and Migration Studies
- Gender studies - Intersectionality and Change (one/two years)
- International and European Relations
- Science for Sustainable Development

### How to apply
- Create an account at universityadmissions.se
- Choose the programme of your interest.
- Submit your online application.
- Pay the application fee, if required, or submit documentation to prove your status as a non-fee payer.
- Check the information on Master’s Documentation Requirements at www.universityadmissions.se and make sure that your documents follow the requirements.
- Upload original versions of your documentation at www.universityadmissions.se

### Fees and funding
Citizens from countries outside the EU/EEA and Switzerland must pay tuition fees, which typically range from SEK 80,000 to 136,000 (USD 9,000 to 16,000) per year. Students admitted to a master’s programme at LiU can apply for a LiU International Scholarship, which covers 25% to 100% of tuition fees.

The Swedish Institute offers a variety of scholarships depending on the level of studies, your nationality and the purpose of your studies. Read more at www.studyinsweden.se

### Application and admission
The academic year runs from August to June. For programmes starting in August 2017, the application period is mid-October 2016 to mid-January 2017. Applications are submitted through a central application portal, universityadmissions.se

Admission requirements for master’s studies at Linköping University are normally a bachelor’s degree from an internationally recognised university; proof of skills in the English language (TOEFL, IELTS) and the specific requirements for each master’s programme.

Contact us
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