

Hochschule Bremen
City University of Applied Sciences



School of Electrical Engineering and Computer Science

“We think team” – study and internship abroad at HSB”.

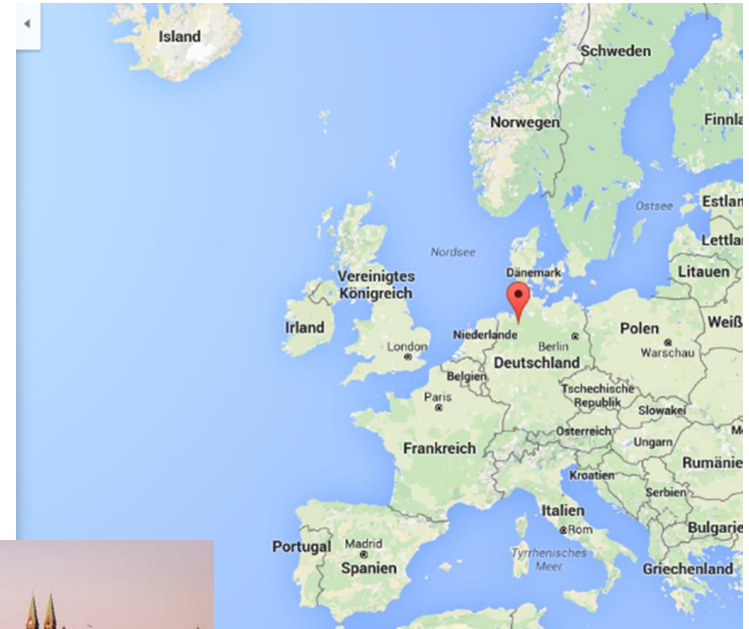
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Location



In the Center of Europe



In the Heart of Bremen



History

1799	Navigation School Bremen later: College of Nautical Science
1894	Technikum later: College of Engineering
1919	Women's School of Social Science later: College of Social Science
1968	Business Academy later: College of Business
*1982	Foundation of Hochschule Bremen by merger of the four institutions



Public University, accredited according to German law

Organization

Approx. 9,000 students in

- 43 undergraduate programs
- 22 graduate programs
- PhD: Possible, in cooperation with a university



5 Schools:

- International Business
- Architecture, Civil and Environmental Engineering
- Social Sciences
- Electrical Engineering and Computer Science
- Nature and Engineering

Internationality

Systematic Internationalization for more than 25 years

- Since 1982: International Programs (Diploma, now Bachelor)
 - 2/3 of all Bachelor Programs with a mobility window (1-2 sem.)
 - annually 600 outgoing students, 300 incoming students
 - more than 300 partners worldwide
- 2011: Framework for Study Programs
 - standardized basic requirements for all programs
(each lecture with 6 ECTS = European Credit Transfer System)
- 16% int'l students
- International Graduate Center



→ Increased mobility among professors, technical and administrative staff



Flughafenallee: ZIMT
(Centre for Computer Science
and Media Technology)



Neustadtswall: E-Building

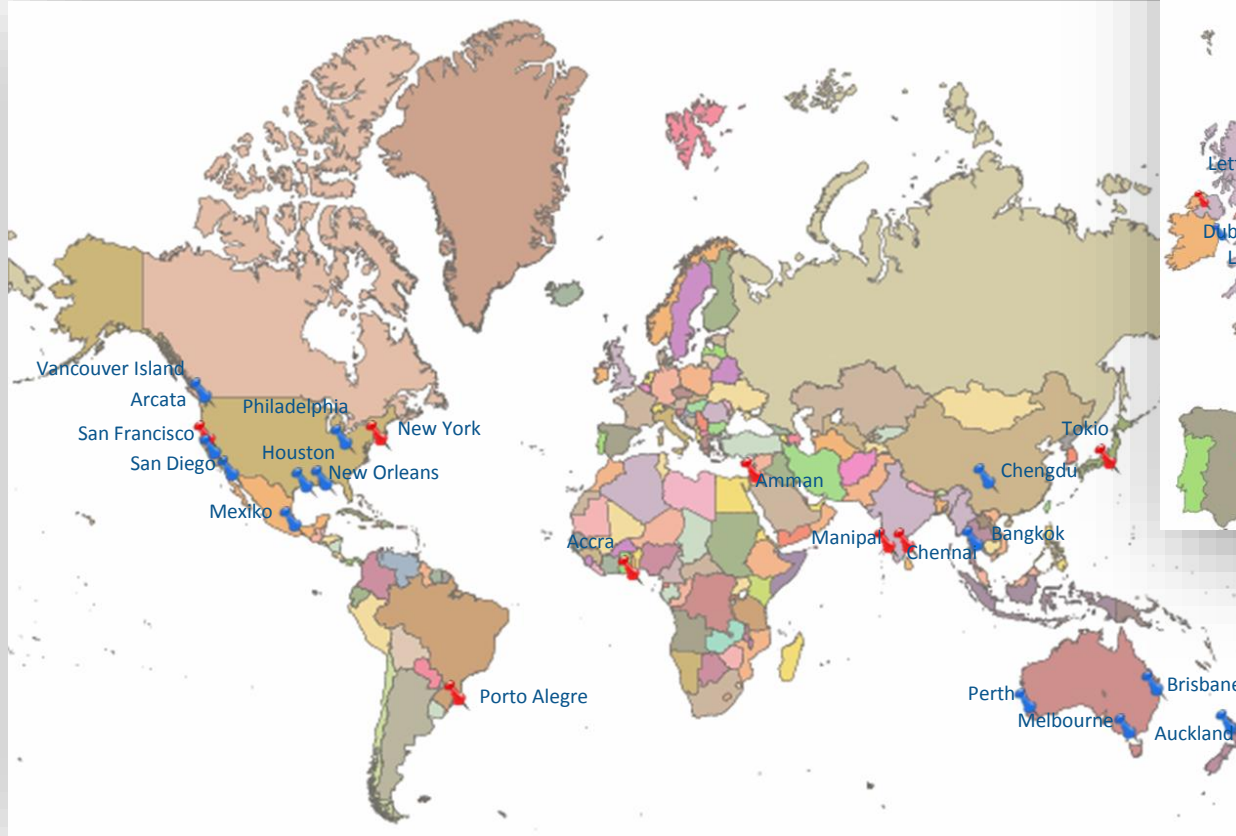
- 2 sites with approx. 9000m²
 - approx. 60 staff members
 - 4 institutes
 - about 35 laboratories
 - several partner universities
-
- Campus WLAN
 - Library
 - Cafeteria and canteen
 - Language lab
-
- Business incubator

Study programs in Computer Science and Electrical Engineering

Field	Bachelor Programs	Master Programs
Computer Science	Women's Int. Degree Program in Computer Science (B.Sc.) - Dual degree option	Computer Science (M.Sc.)
	Int. Degree Program in Media Computer Science (B.Sc.)	
	Degree Program in Technical Computer Science (B.Sc.) - International option - Dual (cooperative) degree option	
	Degree Program in Mechatronics (B.Eng.) - Dual (cooperative) degree option	
Electrical Engineering	Degree Program in Electrical Engineering (B.Eng.) - Dual (cooperative) degree option	Electronics Engineering (M.Sc.)
	Int. Degree Program in Engineering and Applied Physics (B.Sc.)	

- orientation towards practical applications
- orientation towards professional practice
- in many study programs international option

Partner and Host Universities



= Partner University

= Host University

- Simplified admission procedure
- Assistance in finding accommodation
- Newcomer service (registration etc.)
- Host-family program „adopt a student“
- Weekend seminars, e.g.
 - Germany and the EU - History, Politics and Culture
 - Job applications in Germany
- Cultural and leisure program, e.g. trip to Berlin



Int. Degree Program in Media Computer Science (B.Sc.)

■ Characterization:

- Computer science with emphasis on digital media processing and design
- Focus is on development of interactive applications such as
 - web applications and
 - mobile applications
- International program, i.e. compulsory semester abroad
- Up to 72 students per intake

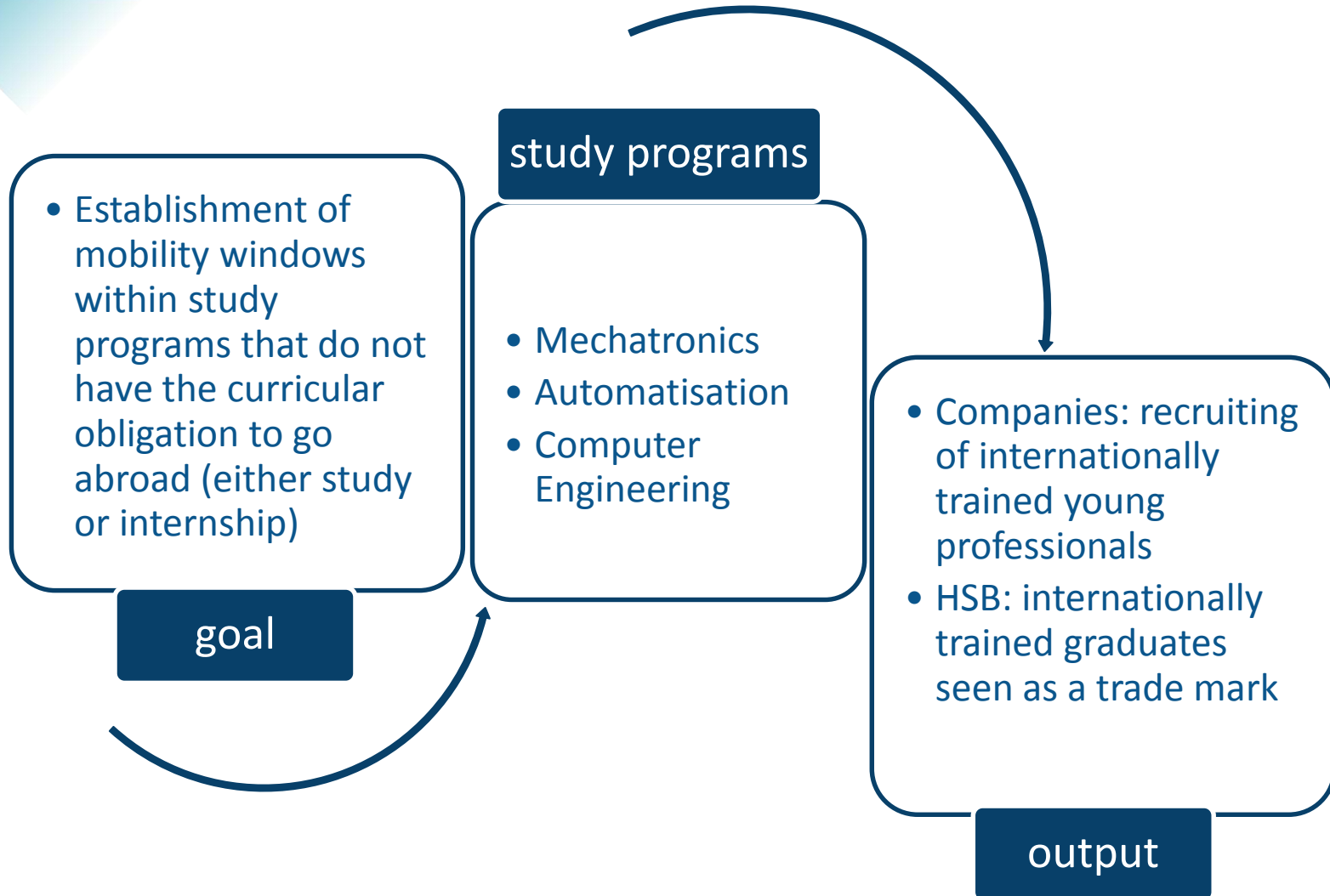
1	Programming 1	Mathematics 1	Foundations of Comp. Sc.	Media Informatics 1	Media Design 1
2	Programming 2	Mathematics 2	Computer Networks	Media Informatics 2	Media Design 2
3	Software Engineering	Media Formats and Algorithms	Security in IS	Project	Human-Comp. Interaction
4	DB / Web-Applications	Computer Graphics	Project	Project	Media Design 3
5	Sem. Abroad (Comp. Opt. 1)	Sem. Abroad (Comp. Opt. 2)	Sem. Abroad (Elective)	Elective	Supervision: Sem. Abroad
6	Compulsory Optional 1	Compulsory Optional 2	Compulsory Optional 3	Compulsory Optional 4	Preparation: Internship
7	Internship			Bachelor Thesis	

<http://www.hs-bremen.de/internet/en/studium/stg/mi/>

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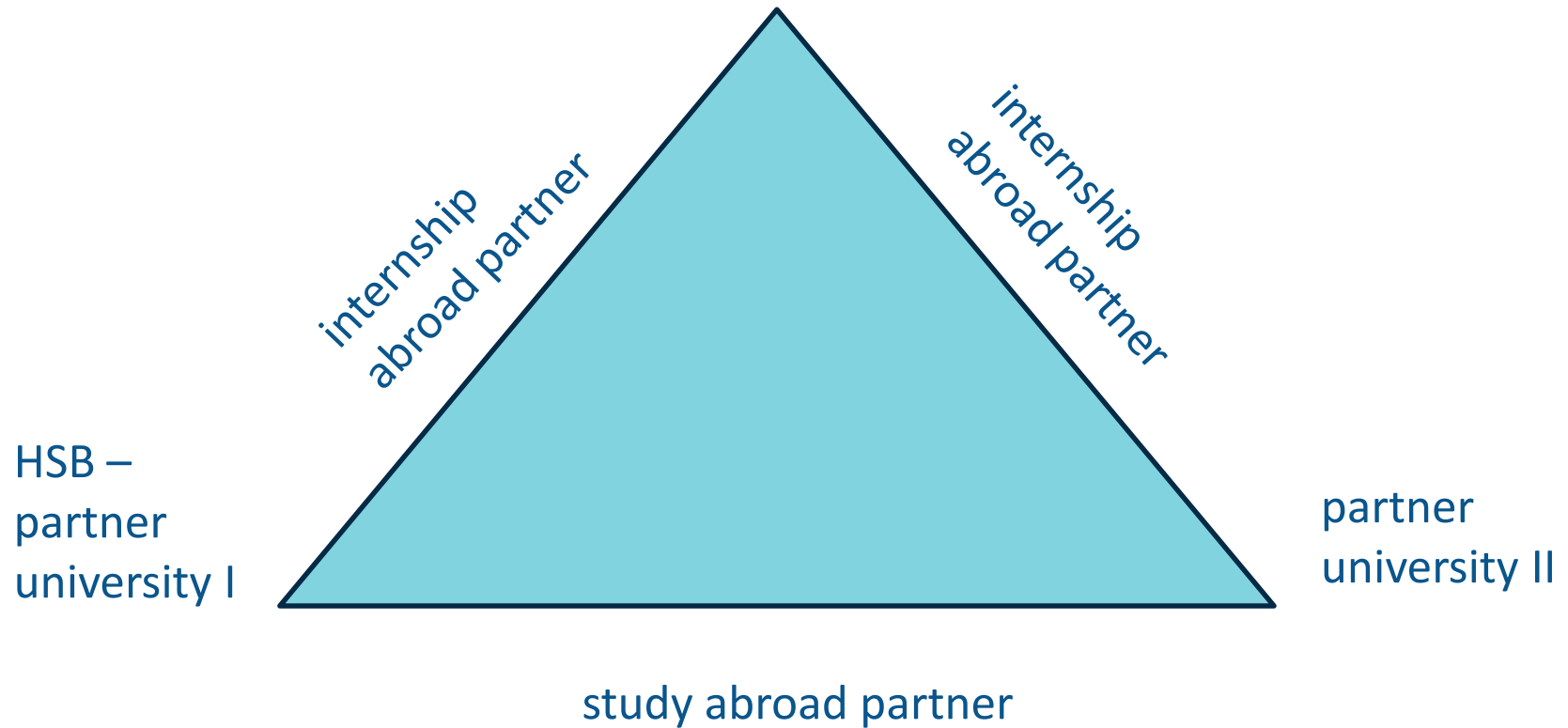


Forming a prototype for structured
mobility windows within STEM study programs



**Securing a succesful graduation within internationally structured programs =
Gaining young professionals for a globalized (working) world**

industry partner (with companies within the „neighbourhood“ of both involved universities)



- **Bonding tool:** Establishment of an elite junior development program in order to secure specialists and managers in the company
- **Early contact** to high potentials at well-known universities in Germany and abroad
- Promotion of **knowledge and technology transfer**
- If necessary, **deepening** of existing cooperation with university partners
- Internationality as a **profile feature** for the company's understanding (“employer branding”)
- Enhanced reputation

- Selection process to determine **max. two students** a year
- **Prerequisites** for participation: very good academic achievements, adequate language skills in English, completion of studies in sight
- **Enrollment** for the stay abroad takes place at the respective partner university
- Participation in selected modules and general studies courses + examinations at the end of the semester (thus transfer of the credits to the home university = **recognition of coursework**)
- During the lecture-free period and / or in the internship semester, the high potential receives a **work study activity** at the internship partner abroad
- Working on the **final thesis topic** in cooperation with the internship partner as well as the home university
- Goal: After completion of studies, **permanent employment** with the internship partner

- During the internship phase, the high potential is regularly enrolled = **favorable conditions** for the company
- For the internship, the students receive a **contract of employment** from the industry partner - this regulates: working hours, compensation, vacation entitlement, etc.
- **Supervision** of the thesis: if necessary. Assistance in finding a topic, content and personal support, participation in the colloquium
- Target after graduation: **Permanent employment** with the industry partner

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Thank you for your attention!

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