



JACOBS
UNIVERSITY

MASTER YOUR TALENTS

Graduate Programs at Jacobs University Bremen



**APPLY
NOW**

DATA ENGINEERING (MSc)

— BECOME A MASTER OF BIG DATA

Big Data has turned out to have giant potential, but poses major challenges at the same time. On the one hand, Big Data is driving the next stage of technological innovation and scientific discovery. Accordingly, it has been called the “gold” of the digital revolution. On the other hand, the global volume of data is growing at a pace that seems to be hard to control. In this light, it has been noted that we are “drowning in a sea of data.”

Faced with these prospects and risks, the world requires a new generation of data specialists. Providing you with up-to-date knowledge and cutting-edge computational tools, data engineering has everything that it takes to master the era of Big Data.



“Jacobs University is a fantastic place. The internationality of staff and students makes me improve myself. This is a degree with a promising future - whether in industry or research. The professors are eager to help me. They are really excited and committed to share their knowledge.”

MOISES, MEXICO —



— jacobs-university.de/data-engineering

PROGRAM FEATURES

The two-year MSc program Data Engineering offers a fascinating and profound insight into the foundations, methods, and technologies of Big Data. Students take a tailor-made curriculum in line with their individual interests and needs. The Data Engineering graduate program is composed of a mixture of foundational lectures, specialized courses, industry seminars and applied project work, leading to a master's thesis that will usually be conducted in close collaboration with an industry partner or even at a company site. **Core components of the program and areas of specialization include:**

- The Big Data Challenge
- Data Acquisition Technologies
- Big Data Management
- Machine Learning
- Semantic Web and Internet of Things
- Statistical Modeling and Predictive Analytics
- Visual Data Analytics
- Internet Security and Privacy
- Legal Aspects of Data Engineering and Data Ethics
- Document and Image Analysis
- Mathematical Finance
- Geo Information Systems
- Modeling and Simulation in Supply Chain Management
- Localization
- Information Theory and Coding



SUPPLY CHAIN MANAGEMENT (MSc)

— BECOME A MANAGER OF GLOBALIZATION

Do you sometimes wonder what a smartphone consists of? How many people in how many places contributed to building it? And how it finally got into your hands?

Understanding your suppliers and supply chain risks is critical since their performance has a direct impact on a corporation's ability to produce or deliver goods or services. The ability to manage global supply chains is therefore fundamental to success in the global economy. Thus, the program perfectly matches needs within industry and beyond. Graduates' career chances are with major players in industries like automobile manufacturing, machinery, precision equipment, aerospace, heavy automotive, software and technology.

PROGRAM FEATURES

The two-year MSc program trains you for the growing field of design and management of supply chains. The program is aimed at students with an already completed first-degree, or equivalent training, in logistics, economics, engineering, or information technology, and for those who can prove a special affinity for the topic. The successful completion of the studies leads to earning an internationally acknowledged Master of Science (MSc) degree and enables a quick career entry in the area of Supply Chain Management in a national or international context. In a business world marked more and more by globalization, complexity and flexibility, the curriculum aims to teach modern leadership and management competencies from the base of intercultural competence.

Throughout all semesters you will discuss human resource management, project management, and career planning. It is strongly recommended to complete a three month internship between semesters two and three to practice and increase your acquired knowledge and abilities. **Core components of the curriculum include:**

- Supply Chain Management
- Transportation and Logistics
- Leadership and Strategic Management
- Modeling and Simulation
- Advanced Business Mathematics
- International Purchasing and Business
- Business Continuity Management

“Learning in small groups makes a great working environment that enables engaging discussions. The program showed me that logistics is everywhere. And Germany has a great environment for internships.”

— OLIVER, USA



— [jacobs-university.de/scm](https://www.jacobs-university.de/scm)

CAREER SERVICES

The Alumni and Career Services Center accompanies students through all stages of their career development in order to enable them to achieve their professional goals. The Career Services Center organizes career fairs, company recruiting events, as well as training on project management, business communication, job interview skills, and more.

— jacobs-university.de/career-services

COUNSELING

- Career orientation
- Application check

EXPERIENCE

- Job portal
- Partnerships with employers

TRAINING

- Mock interviews
- Career skills
- Online tutorials & CV tool

NETWORKING

- Various employer career events
- Annual Jacobs Career Fair
- Jacobs Alumni Community



TOP TEN EMPLOYERS OF JACOBS ALUMNI

- Accenture
- Amazon
- Barry Callebaut
- Daimler
- Google
- KPMG
- McKinsey
- Microsoft
- Roche
- SAP

CAREER PREPARATION

A core emphasis of the programs is placed upon supporting the participants' personal development in terms of soft skills and language skills. To account for the diversity in the student body and their tendency to work in Germany, we train students in (German) language proficiency and convey country-specific information to best prepare them for the national as well as the international job market.

SUCCESS AFTER JACOBS

Graduates of Jacobs University follow a variety of professional and academic career paths all over the world. Our alumni are working in fields such as IT and telecommunications, consulting, higher education, research, finance, engineering, logistics, and health.

Some students have made a leap into entrepreneurship and launched their own businesses. Start-ups founded by Jacobs alumni are active on the market worldwide.

Many students also choose to pursue further research career at some of the world's most prestigious universities.

“The University has very strong relationships with the industry. The professors are very well networked. They helped me to get a position with one of the local firms.



— SICELESILE, ZIMBABWE



FINANCING OPTIONS

We believe that everyone has the right to a good education – and this is the principle we live by at Jacobs University. We are committed to bringing students with demonstrated abilities to campus regardless of financial background. This is why we offer students a personalized financial aid package to finance their studies, consisting of scholarships and deferral options.

FINANCIAL AID IN THREE EASY STEPS*

1 APPLICATION & ADMISSION
Our financing options are available immediately upon admission.

2 MERIT-BASED SCHOLARSHIP
All applicants are automatically considered for a scholarship – based on your academic skills and social commitment.

3 THE “JUStudyAtEase” PROGRAM
In cooperation with our partner Brain Capital

- Deferral of tuition fees is calculated automatically.
- Applicants decide whether they want to use this financing option.
- Granted independently of the financial situation.
- Flexible repayment plan.



Repayment doesn't begin until a predefined minimum income is reached.



A percentage of the income is paid for a limited period of time.



If the income is lower than the defined minimum income level, repayment is deferred.

jacobs-university.de/financing-options

* Applies exclusively to regular master's programs



HOW TO APPLY

FOR GRADUATE PROGRAMS

You will need to provide the following documents:

- Letter of Motivation
- Curriculum Vitae (CV)
- University transcript in English or German
- Bachelor's degree certificate or equivalent
- Two letters of recommendation
- English language proficiency test with a minimum score of 90 (TOEFL), 6.5 (IELTS) or 60 (Duolingo)

jacobs-university.de/study/graduate/application-information

APPLICATION DEADLINES

FOR GRADUATE PROGRAMS

ROLLING ADMISSION

June 1 – Applicants who require a visa
July 15 – EU students / students who do not require a visa

TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKING 2019

TOP 300
WORLDWIDE

#1 INTERNATIONAL
UNIVERSITY
IN GERMANY

#1 PRIVATE
UNIVERSITY
IN GERMANY

#5 BEST UNIVERSITIES
THAT ARE YOUNGER THAN
50 YEARS IN GERMANY

#11 IN TEACHING AMONG
YOUNG UNIVERSITIES
WORLDWIDE

1,466 STUDENTS



FROM 111 COUNTRIES



90%

OF JACOBS ALUMNI FOUND THEIR FIRST
JOB WITHIN ONE YEAR OF GRADUATION



82%/44%

OF OUR GRADUATES RECEIVED THEIR FIRST JOB OFFER
IN EUROPE OR NORTH-AMERICA / IN GERMANY



40

ACTIVE START-UPS FOUNDED
BY JACOBS ALUMNI



84%

OF OUR ALUMNI WOULD
RECOMMEND JACOBS UNIVERSITY



Jacobs University is a research-oriented, state-recognized university in Bremen, Germany. Located in the heart of Europe, our campus is the home of a truly international community. Around 1,450 students from more than 110 countries study at Jacobs University.

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**GET IN
TOUCH!**

