



# Advantage through Quality

Fachhochschule Münster





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Fachhochschule Münster

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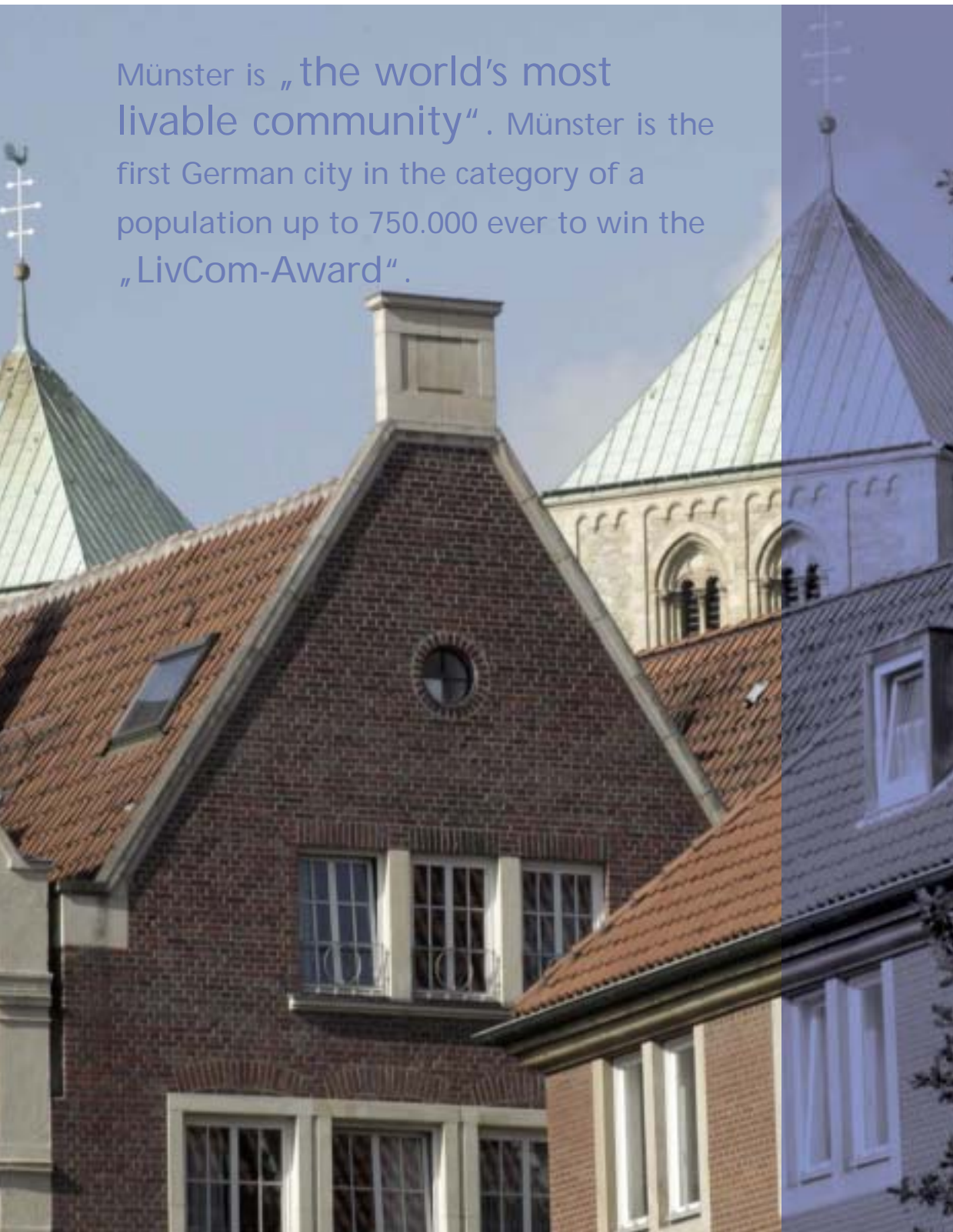
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## The Profile of the Fachhochschule Münster

Münster is „the world’s most livable community“. Münster is the first German city in the category of a population up to 750.000 ever to win the „LivCom-Award“.



## Strong through Diversity

The Fachhochschule Münster is a much valued, innovative partner within the region, in Germany and on international levels. Its strength lies in the diversity of its offers. Assisted by a network of strategic partnerships, it continues to further strengthen its leading position through its sustained commitment to providing education as well as transfer of knowledge and research.

The Fachhochschule Münster is grounded in a long educational tradition: Founded in 1971 from an amalgamation of state owned and private schools for engineering and civil engineering and institutions of specialised vocational training, it ranks among Germany's largest and most successful Fachhochschulen today.

## Success is Based on Quality

It is the claim of the Fachhochschule Münster to be the leading address in education and research for practice.

Quality is the foundation for all application areas within the university. It is the benchmark for teaching, with all its manifold offers that are oriented after the demands of the market. It is the fundament for an excellent success in research with the highest rate of third party funding achieved in any German university. It is the mainspring that incites enterprises to enter into strategic alliances and partnerships with the university. It is also the hallmark of a finely adjusted system of internal resource management.

All these marks of quality together characterise the image of this modern, high-performing and client-oriented university.



The campus of the Engineering faculties is situated on the outskirts of Steinfurt. The bagno, an extensive natural park, links the historic city centre with the bustling industrial estate and provides an ideal environment for hiking, cycling and rowing. The castle is considered one of the most beautiful among the moated castles of the Münsterland.



The Hüfferstiftung – home to the Principal's Office, the central administration and the Faculty of Social Studies of the Fachhochschule Münster.



The Faculty of Design on the Sentmaringer Weg.

## Mission Statement

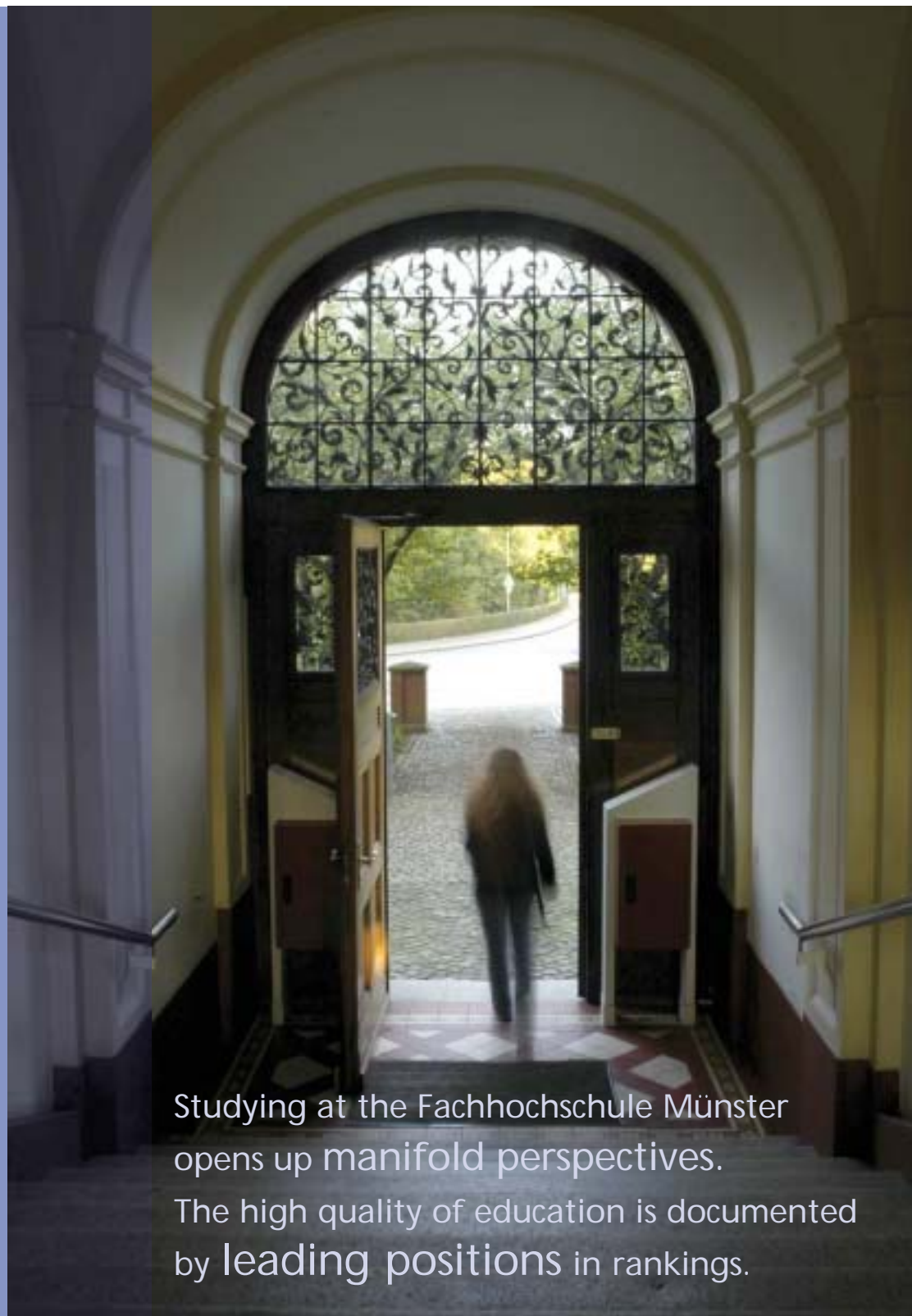
„With its offers in education and its research work the Fachhochschule Münster provides an excellent service for the society. Our university is the leading address in terms of preparation for a professional life- and work-environment.

Through interdisciplinarity and interculturality we equip human individuals with all that is needed for a life in the global market and provide them with a vivid understanding of the changing life- and work-environment.

Assisted by a network of strategic partnerships, we continue to further strengthen our leading position among German universities. To this end, we implement our teaching and our transfer of knowledge and research in such a way that they meet the demands, are of high quality and sustainable.“

### ----- At a glance -----

	Quantity
Faculties	12
Central institutions	3
Courses of study	50
Professors	250
Staff	400



Studying at the Fachhochschule Münster  
opens up manifold perspectives.  
The high quality of education is documented  
by leading positions in rankings.






Quality in Teaching

## Dimensions of Diversity

A high quality education is the dominating feature of diversity in teaching in all its dimensions. This includes a broad range of subjects offered for study as well as interdisciplinary programmes, integration in an international framework and first and foremost, an orientation on the demands.

Within the framework of the four faculties of Engineering, Social Studies, Design and Business Administration, the Fachhochschule offers an enormous variety of areas for specialisation. The numerous courses of study, which are oriented on related disciplines, allow for interdisciplinary, co-operative offers such as Industrial Engineering, Total Facility Management and Logistics. In addition, a number of courses of study are being jointly offered together with other Fachhochschulen and universities; among these are Technical Business Studies, Social Work, Teacher Training for Vocational Education and Technical Orthopaedics.

Beyond this, there are also programmes available in co-operation with various universities abroad. Among them are the European Business Programme as well as the German – Latin American course of Business Studies and the European Engineering Programme. Besides these institutionalised offers, the university maintains and cultivates its numerous international contacts in more than 90 active co-operations with universities abroad. This is reflected in a high proportion of international students.



High quality teaching and  
small group learning are the  
key to **SUCCESS** for the students  
at the Fachhochschule Münster.

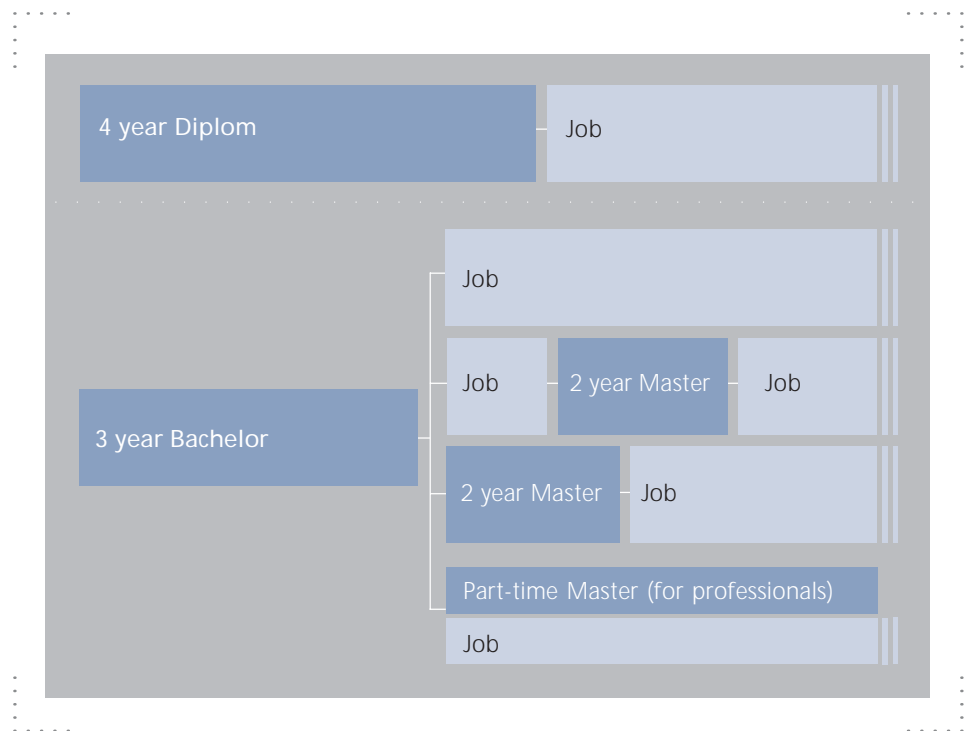


Practical relevance and a  
good reputation are the  
most frequently mentioned  
reasons for our students'  
decision to study at the  
Fachhochschule Münster.

## Demand-Oriented Quality

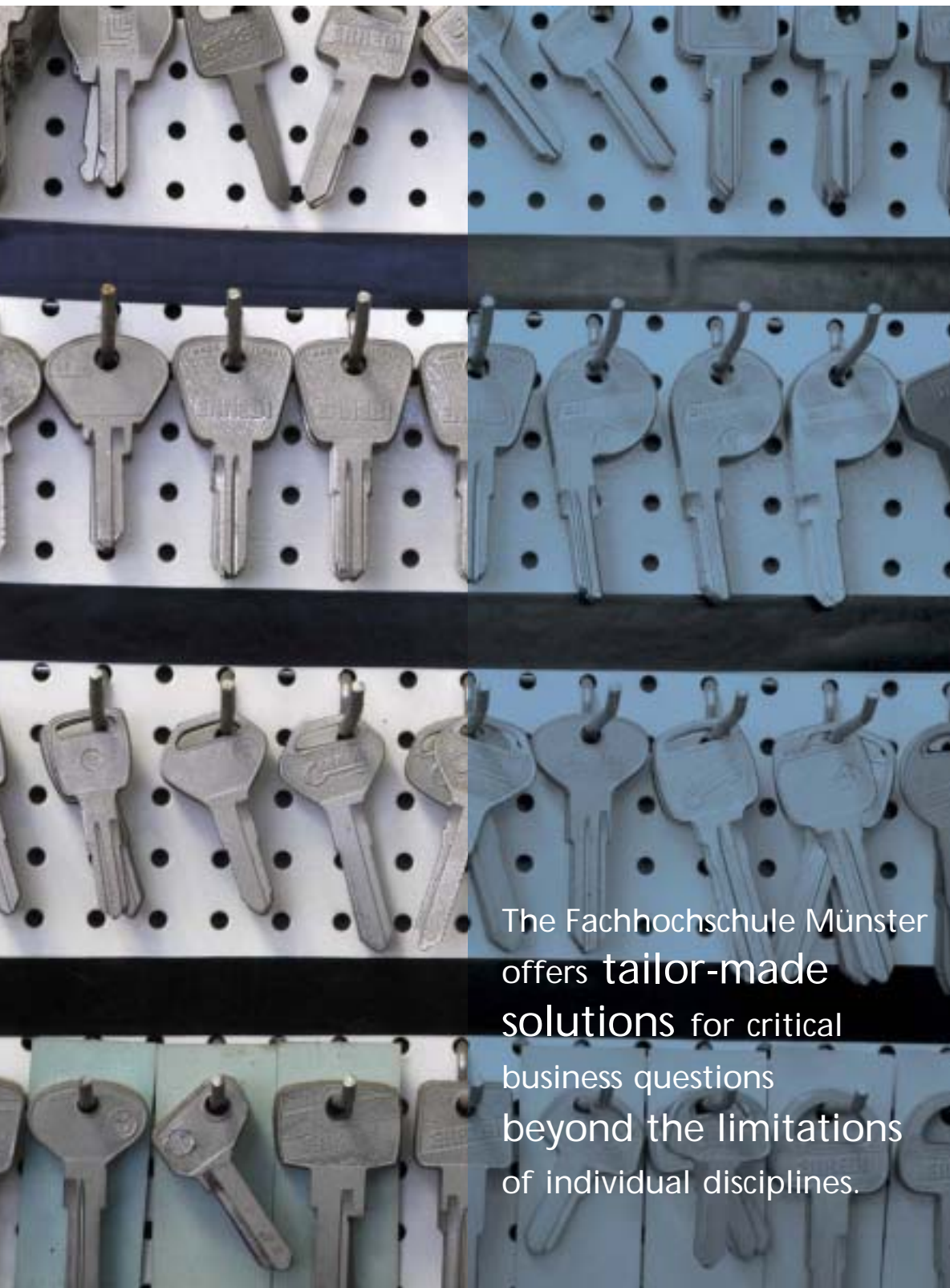
The university aims to meet the requirements and expectations of its target group. The course contents reflect the demand. Students looking for a high level of practical relevance and applicability will find these achieved in the skills they learn at the Fachhochschule Münster. Educational formats such as study projects and internship semesters are a matter of course just as well as small group learning and close contact to the teaching staff.

Our study offers are in line with market requirements and are based on the changing profiles of the future job market. They provide for individual options in planning one's studies and are continually adjusted to the demands. Some examples for such demand-oriented diversity are our joint effort together with the Chamber of Industry and Commerce to establish a range of Bachelor degree courses in the dual system of education or a research-oriented Master course for a specialised market with high scientific demands. Reacting to the ever stronger demand for lifelong learning, we also continue to institute further courses of higher studies in the form of Master programmes.





Excellence in Research



The Fachhochschule Münster  
offers **tailor-made**  
**solutions** for critical  
business questions  
beyond the limitations  
of individual disciplines.

## Competence in Research on a Broad Basis

Academics, staff and students together form the high research potential of the Fachhochschule Münster. 10 000 human individuals in a common pursuit for new ways and tailor-made solutions. Their strength lies in the diversity of their knowledge, their rich experiences and their curiosity.

Obligated to tradition and yet enthusiastic about innovation, these people are engaged in research and development in Münster and Steinfurt beyond the limitations of our 15 faculties and central academic institutes. In co-operation with universities and research institutes all over the world as well as with partners in business, the Fachhochschule Münster is in a constant pursuit of innovative solutions.

The university gives proof to its competence in research and to its high quality standards in six areas:

Construction | Environmental | Resources  
Health | Life-Sciences  
Product and Process Development  
Applied Social Sciences  
Company and Service Management  
Communication | Information.

Each of these headings represents a multitude of application areas – under which 70 individual units are contained. From these, our clients can select the areas of competence relevant to their requirements. Yet this matrix is not at all a static structure. With respect to new developments in research and to the changing demands of the market, it is under permanent revision.

## Networked Researching



The Euregio Laser Demonstration Center and Euregio Biotechnology are further examples of inter-connecting and cross-border research and developments.

In research, the Fachhochschule Münster sets standards. Academics in Münster and Steinfurt research with particular emphasis on interdisciplinarity in co-operation with both domestic and international partners in science and in business. It is their commitment to provide solutions to problems in industry, the trades, social institutions and non-profit organisations. Beyond this, academics representative of all the disciplines create the momentum for new technologies, services and management tasks. Not only is this applied research of benefit for teaching, but it also promotes the networking of competences within the universities.

With great intensity academics from the university bring their knowledge to the competence platforms designated by the state of North Rhine-Westphalia. Master courses and co-operative dissertation projects at doctoral level find integration in research. The institutionalised co-operation with universities, research institutes and both domestic and international businesses guarantees a development of products, processes and services which is in line with the market requirements.


The competence platform „Life Sciences – Medicinal Technology“ by now is well-established on the international market for medicinal technology. Be it a wireless foot switch for use in operation theatres, be it the task of measuring hidden flows in infusion systems to enhance the patients' safety, or testing venous clips in cardiac bypass-surgery – according to the requirements of each project a network of researchers will be individually composed to solve the problem.

The competence platform „New Materials: Nano-Scale Materials and Functional Layers“ combines the research knowledge of three universities. Academics from the Fachhochschulen Gelsenkirchen, Münster and Südwestfalen (Southwestphalia) collaborate with partners in business, such as Merck AG Darmstadt, Degussa AG, Osram, as well as a number of smaller enterprise to search for new materials offering special functionality on the grounds of their nanostructure. Applications can be expected in the field of lighting as well as in the sector of compound materials (metal, ceramics, synthetics).

Co-operations between Dortmund, Münster and Südwestfalen (Southwestphalia): The competence platform „Communication Technology and Applied Signal Processing“ is involved in such cutting-edge technologies as speech recognition and speech processing, interfaces between humans and machines and multimedia communication technology.

From its orbit in the universe, a satellite measures the pollution of the earth's climate with gases accelerating the greenhouse effect. In co-operation with both domestic and international business partners, the competence platform „Optical Technologies – Photonics“ at the Fachhochschule Münster is developing new measuring technologies.





A project which helps to save vast amounts of water, energy and detergents in industrial-size dishwashers used in canteens is funded with European resources.

## The Number of Projects Funded is Continuously Growing

Interdisciplinary work is part of the day-to-day business in the „competence platforms“ as well as in the focal areas of research. Some examples of these focal areas are:

- Chemical Environmental Technology
- Technologies for the Protection of the Environment in Waste Management and Waste Water Management
- Fuzzy Technologies in Engineering Technology
- Quality Assurance / Quality Management
- Multimedia
- Applied Materials Sciences: Functional Materials and Functional Layers
- Transport – Logistics – Traffic Management
- Technologies in Medicinal Laboratories: Diagnostic Systems and Testing Processes
- Environmental Friendly: Prevention of Pollutant Emission
- Utilization of Biomass for Energy and Substances
- Science Marketing

- Quality Development in Social Work
- Ergonomics and Process Design in the Health Care System: Optimisation of Medicinal Technology and its applications

The university's high level of performance is also evident in the multitude of individual projects. In the funding schemes provided specifically for Fachhochschulen by the Federal German government as well as by the state of North Rhine-Westphalia, the Fachhochschule Münster regularly occupies one of the leading positions. Testimony to this is given by the programmes „Transfer-oriented research in Fachhochschulen in North Rhine-Westphalia (TRAFO)“ and „Applied Research in Fachhochschulen in Co-operation With Businesses (FH3)“.

The continuous increase in the number of projects funded by the Deutsche Forschungsgesellschaft (DFG, *German Society for Research*) and by various European schemes serves to document the high quality of the research. In particular, the areas „Optical Technologies“ and „Integrated Environmental Technology“ are home to excellent, internationally acclaimed research projects.

The Fachhochschule Münster promotes research consistently.




## Partners in All the World

On regional, national and international levels – academics from the Fachhochschule Münster collaborate with partners from all over the world in joint research projects. This helps to prepare students for their future professional environments and their workplace and life environments. Science constantly keeps in contact with practice. This form of networked collaboration provides direct access to up-to-date application-oriented research results for businesses and institutions. This helps enterprises and organisations to maintain their positions on a global market.

### The Fachhochschule Münster ...

- ... supports the South Western Medical Center's (Dallas/USA) research in Alzheimer's disease.
- ... is working together with the Siemens AG on standardisation of signals in internet telephony.
- ... is developing synergetic processes for factory planning in collaboration with the Technische Universität Hannover, aiming at the integration of production planning, architecture and building technology.
- ... has optimised adhesives for steel adhesion in collaboration with the raw materials provider Bayer MaterialScience AG (Leverkusen), the adhesives producers Henkel Teroson GmbH (Heidelberg) and Sika Schweiz AG (Zurich/CH) as well as with the commercial users DaimlerChrysler AG (Stuttgart), ThyssenKrupp Stahl AG (Duisburg), Kaldewei GmbH & Co. KG (Ahlen) and Wilhelm Karmann GmbH (Osnabrück).
- ... has produced an oxygen reformer for the international space station ISS, together with EADS Astrium GmbH (Friedrichshafen).
- ... has enhanced the main deck beams of the Airbus A380/F for EADS Germany GmbH (Munich), using the finite-elements method (FEM).
- ... has developed a system for prestressed concrete railway sleepers in co-operation with the Deutsch Bahn AG (Frankfurt).
- ... has designed a complete screen design with navigation and functions for the Europe-wide exhibition „1648 – War and Peace in Europe“, together with the project partners Westfälisches Landesmuseum (Münster), Collège de France/ Louvre (Paris/F), Stedelijk Museum (Delft/NL) and Eurlis (Marseille/F).
- ... has developed an overall strategy for the company Windmöller & Hölsch KG (Lengerich) for their strategic and operational purchasing processes.
- ... has assisted the Landesjugendamt NRW (*Münster, Department of Youth Services North Rhine-Westphalia*) in quality development for youth welfare services.
- ... has developed concepts for communal housing for people with dementia in co-operation with the Europäische Senioren Akademie (Ahaus, *European Academy for the Elderly*).
- ... has assisted Miele & Cie. KG (Gütersloh) in developing ovens and dishwashers.
- ... has conducted research for apetito AG (Rheine) for the further improvement of management systems in quality assurance.
- ... has assisted Dr. August Oetker Nahrungsmittel KG (Bielefeld) in product development in the fields of innovative recipes and sensory methods.



Together with Hochtief  
Constructions AG (Essen), the  
Fachhochschule Münster has developed  
a new rainwater management system  
for the Westfalenstadion in Dortmund  
(home of the football club Borussia  
Dortmund). The advantage: enormous  
energy savings and an open view  
unobstructed by any pylons.



Identifying the requirements, bringing together partners in business and science, developing new ways and strategies and assisting new projects – all these are processes in which the **Transfer Agency** helps.

## Innovation through Partnership

In the transfer of research and technology the Fachhochschule Münster is exploring new paths: It has founded the independent „Transfer Agency of the Fachhochschule Münster GmbH“.

The services offered by the Transfer Agency are geared towards the university's academics as well as towards regional enterprises and institutions. The target: „Innovation through Partnership“. By co-operating with this agency, which is embedded in the structures of the university, enterprises, associations and researchers take an active role in shaping the university's transfer strategy, its quality and effectivity.

The transfer of international results is one of the university's foremost tasks. It has been guiding this process for more than two decades. With the team of the Transfer Agency it can now react faster and more comprehensively to the requirements of academics and partners in business.

The Transfer Agency helps in identifying ideas and concepts in tasks of research and development. In addition to this, it offers support in their realisation.



Strong through Partners and Alliances

## Strong through Partners and Strategic Alliances

Networks and co-operations are answers to the rapid change in business and in science. Strategic alliances are a way of mutually making knowledge, resources and international experience in practice permanently and dependably accessible and utilisable for one another. This is of equal benefit for both partners.

The university continues to further expand its network of renowned, high performing partners in business, science and society, which guarantees a future-oriented education for our students. The transfer of technology and research between the partners is being systematically encouraged.

Funding for and initiation of strategic alliances and partnerships for the university is centrally administered in an independent prorectorate for „Co-ordination and Partnerships“.

The Fiege-group is one of the four companies that work together in an initiative to support the course of study in „Logistics“.





To profit from one another – in its strategic alliances with partners in business, e. g. BASF Coatings AG, as well as with communities and universities, this is the mutual pursuit of the Fachhochschule Münster and its associates.



Foundation chairs are excellent testimony to the fact that all parties involved will profit when science and business work together to **develop** and offer **demand-oriented** courses of study: companies, universities and first and foremost, the students.

## Strategic Alliances

With its quality in teaching and research the Fachhochschule Münster provides many interesting interfaces for co-operating partners. Whether it be in product development, in company management, in human resources development or in communication: our partners will always find the specific competences they require – either in individual disciplines or in the accumulation of diverse factors of excellence.

### BASF Coatings AG

One of the strategic alliances the Fachhochschule Münster has entered in is with the largest division of BASF AG, which operates world-wide from Münster-Hiltrup. Both parties profit from one another. The spectrum of this alliance covers a wide range of projects which include research and development projects, co-operation in questions of third level education policies and granting one's partner access to one's networks, privileges in the allocation of internships and topics for degree dissertations within the company and a common human resources development. Beyond this, specific offers of higher academic training are being developed for the company.

### Kreis Steinfurt – Steinfurt District

The alliance with the Kreis Steinfurt (Steinfurt District) is grounded in the well-matured regional affiliation between the university with its campuses in Münster and in Steinfurt on the one side and regional enterprises on the other. The common initiative TRAIN – Transfer in Steinfurt and the start-up centre GRIPS give testimony to the university's strong ties to the region. Both partners eagerly promote mutual initiatives such as information events and educational offers on current issues of society and politics.

### UAS 7 – Alliance for Excellence

To support co-operations with universities in the USA and beyond, the high performing Fachhochschulen in Berlin, Bremen, Cologne, Hamburg, Munich and Osnabrück have jointly founded the consortium „UAS 7 – German Universities of Applied Sciences“ together with the Fachhochschule Münster. In its initial phase, the consortium, which operates from New York, intends to promote exchange between students and academic teachers, co-operations in research as well as joint summer schools and other study offers.

## Partnerships and Trust Funds

### Technical Orthopaedics

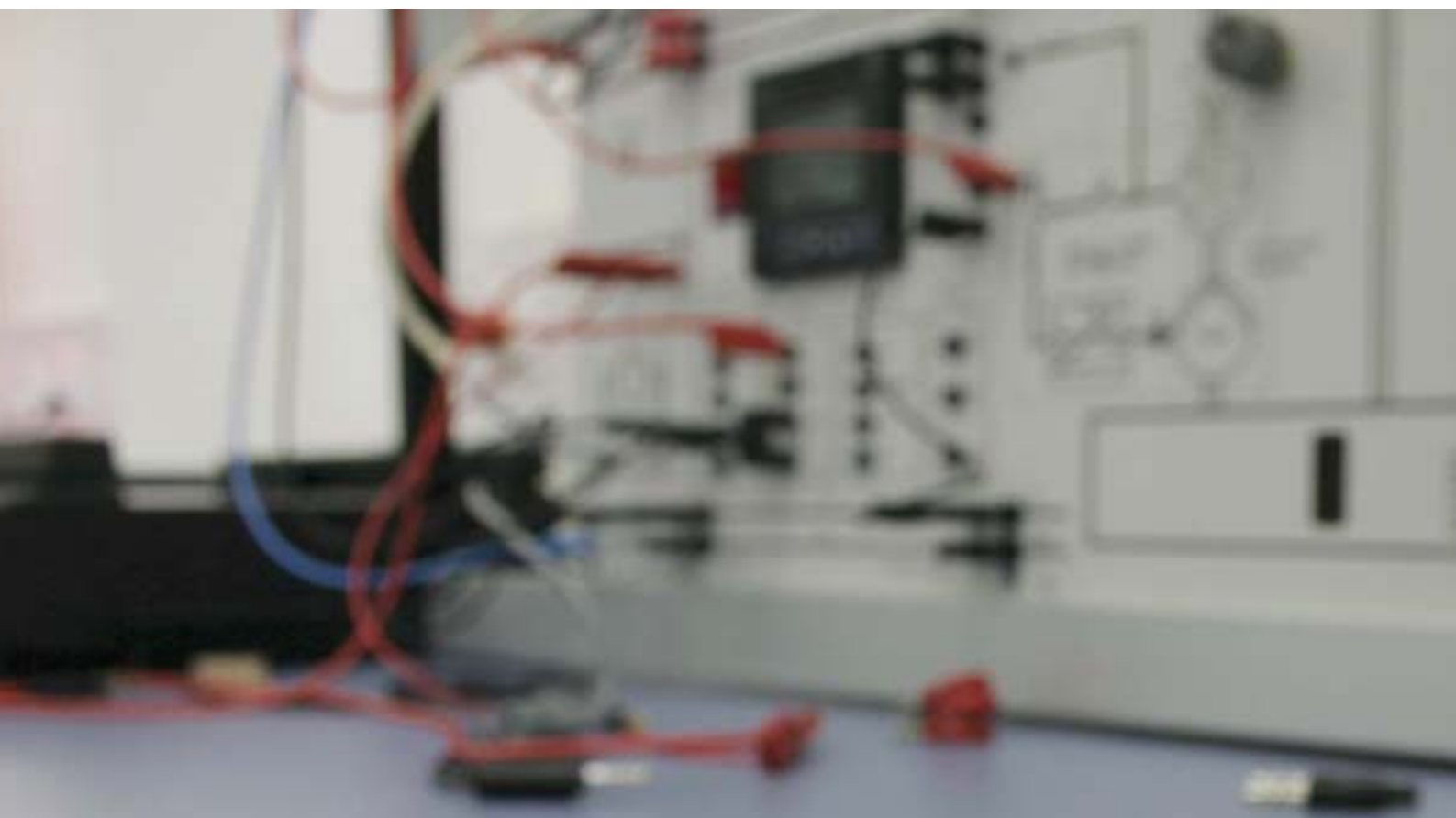
In the form of co-operations with branches of trade, the Fachhochschule Münster has chosen yet another route of collaboration, which, among others, has resulted in the new engineering degree course in Technical Orthopaedics. The vicinity to the only clinic for Technical Orthopaedics nationwide at the Westfälische Wilhelms Universität Münster meant the foundation stone for this co-operation, in which also the Bundesfachschule für Orthopädietechnik (*Federal Vocational Training Institute for Orthopaedic Technology*) in Dortmund is integrated. The high demand for qualified orthopaedic engineers – in an innovative professional environment – has encouraged the world-leading enterprise in this branch, Bauerfeind AG, to support a Foundation Chair at the university.

### Master in Logistics

The interdisciplinary Master course in Logistics and a new chair are the product of a joint initiative between four companies – the Fiege-group, the Jungheinrich AG, SSI Schäfer Noell GmbH and Vaillant Hepworth group – and the Fachhochschule Münster. Business economists and engineers receive the qualifications to take up leading positions in the future in logistics as well as for application-oriented research in logistics.

Bauerfeind AG is an important pillar for the Foundation Chair in Technical Orthopaedics.





Fachhochschule Münster University of Applied Sciences





## Modern Management

## Efficient Resource Management

Efficient Resource Management is the fundament for success in teaching, research and transfer of technology. Management operates by a differentiated range of instruments, which allow for a multitude of options for adjustment.

The gauge of all these activities is the plan for the development of the university. In agreement with all organisational units and with proposals from an external board of trustees, this plan outlines the university's mission statement and its targets over a period of several years.

Taking the form of a pilot scheme, the Fachhochschule has spearheaded the introduction of a global budget. This is the precondition for creating a budgeting with a higher degree of independence from the North Rhine-Westphalian state and it forms a realistic framework for development opportunities. An intense process of human resources development and investment planning was commenced earlier than in most other universities.

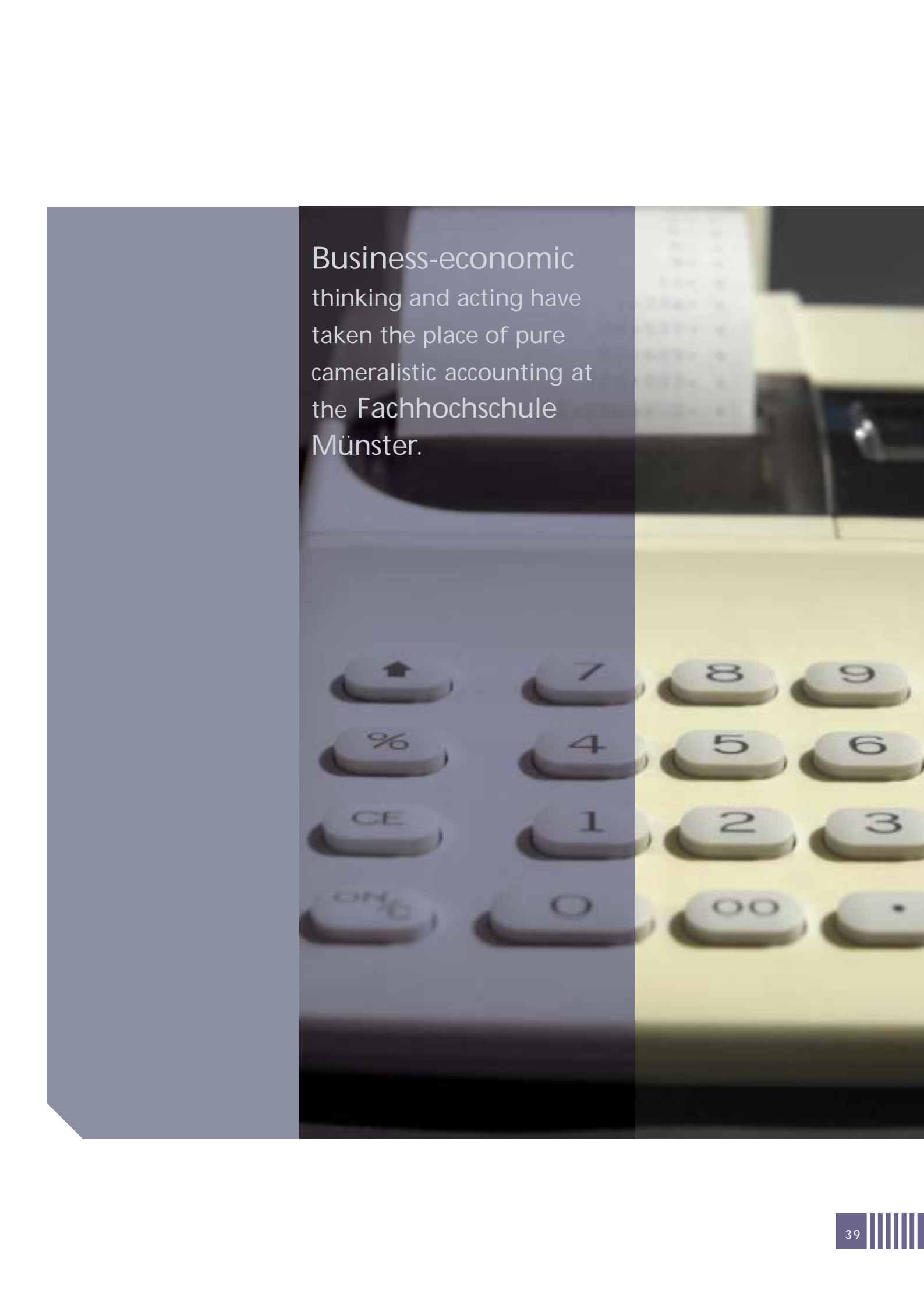
### Human Resources Planning as a Key to Success

The requirements for human resources are extraordinarily complex. There is the necessity, on the one hand, to re-adjust or flexibly customise the definition of jobs according to the demands or to planning aspects. On the other hand, the universities have been directed by the North Rhine-Westphalian state to reduce their staffing. A static human resources plan would leave no room for innovative projects.

As a consequence, the Fachhochschule Münster has reacted to this challenge by developing a differentiated system of human resources planning and management. The adjustment of resources to the demands is carried out through the instrument of a dynamic staffing pool. Furthermore, the introduction of the global budget was used as an opportunity to implement a system for the budgeting of staffing costs, which is characterised by the following factors:

- Priority of planning aspects over thinking purely in terms of costs
- Participation of the faculties in the autonomy of the global budget
- Practical and effective controlling in human resources
- Flexible means of reacting to future developments

Beyond this, maximum planning security and transparency form the basis for a strategically successful future development of the university's human resources.



Business-economic  
thinking and acting have  
taken the place of pure  
cameralistic accounting at  
the Fachhochschule  
Münster.



Differentiation, transparency and performance-relatedness – the necessary parameters for a successful allocation of resources.

## Performance-Oriented Allocation of Resources

The internal allocation is dependent on requirements and performance. Here, the amount of third party funding attracted plays an important role, as well as the numbers of students, teaching staff and graduates. The individual requirements of the different disciplines are taken into account. Our management follows the principles of modern business management. Herein, costing and performance calculation provide for the necessary level of transparency. Target agreements between the university management and the faculties secure the steps of development required.

With the help of a model to allocate space resources, it has been possible to identify the exact space requirements of the individual organisational units and to balance them against each other. Whereas in many other institutions the phenomenon of a certain status quo protectionism in terms of the allocation of spaces has been observed, the Fachhochschule Münster implements a pragmatic and co-operative model of allocating the crucial „room“ resources.

All instruments of management are inevitably linked to a consistent service-orientation in all relevant areas of the university. Also in this respect the university is well prepared for the future.

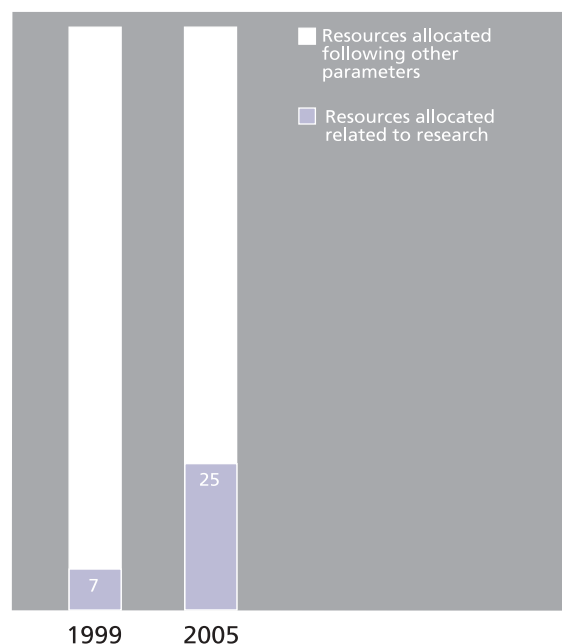
### Systematic Support for Research

Among the Fachhochschulen in Germany, the Fachhochschule Münster has continually developed into one of the strongest in research. One of the reasons for this development lies in the consistent support for research – be it through funding or other initiatives. Among other aspects, this system includes:

- Rewards for attracting third party funding, as well as for publications and patents
- A special programme for acquisition of additional equipment and modernisation of existing equipment
- Reductions in teaching obligations
- Organisational as well as administrative support for research projects

The annual allocation of resources within the university gives testimony to the systematic support for research. On average, research-related components accounted for 7% of the departments' budgets in 1999. By 2005, the share of resources allocated to the departments dependent on their performances in research and development had already increased to 25%.

Allocation of resources following different parameters (%)





## The University: Figures and Facts

## Departments and Central Academic Institutions

### Architecture

The Faculty of Architecture, which is situated on the Leonardo-Campus, provides its students with all the skills needed in the multi-faceted range of related jobs through a two-tiered system of Bachelor and Master courses. The Master course, which is taught by internationally acclaimed professors of architecture, leads students right up to the qualification to practice in the protected profession of the architect. The Master in Architecture from the Fachhochschule also provides graduates with the qualification according to the UIA/Unesco-standards, which enjoy worldwide acceptance, and which were first implemented in Germany by the Faculty of Architecture.

### Civil Engineering

Civil Engineering is committed to the planning, construction, calculation, building and operation of buildings and their infrastructure. Prospective graduates of the Faculty specialise in constructive engineering, the traffic system, water management and waste management, as well as in construction operations.

### Chemical Engineering

Students and teaching staff in Chemical Engineering engage in the fabrication and characterisation of materials and substances to suit the widest possible range of application areas. In the faculty located in Steinfurt, which is involved in international networks, focal research fields are new materials and new fabrication methods. Chemical Engineers work in application areas in the chemical and pharmaceutical industries, in the synthetic materials industry, as well as in almost any branch of industry and in public service.

### Design

The Design course of study in Münster provides students with the qualifications they will need in their diversified work environment as designers, always keeping in close contact with practice and with a strong sense of dependability. The interdisciplinary course of study, which offers options for specialisation, is geared towards the requirements of the knowledge- and communication-society.

### Electrical Engineering and Information Science

Automatisation technology, communications engineering and information science are the integral constituents in the range of teaching and research in the Faculty for Electrical Engineering and Information Science, which is situated in Steinfurt. The education we provide for our students is grounded in a broad and solid base of knowledge, which is supplemented by specialised knowledge relevant to particular areas of expertise.

### Energy Building Environment

The technological equipment of buildings, energy supplies and environmental technologies are key terms in the highly specialised course of study in the Faculty Energy Building Technology located in Steinfurt. Teaching and research in building services engineering and disposal technology is performed with an eye on practical applications.

### Mechanical Engineering

Mechanical Engineers who have taken the application-oriented course of study with its strong emphasis on practical applicability in the Faculty of Mechanical Engineering located in Steinfurt are building and operating machines, production lines or even factories, as well as complex technologies for measuring, management and regulation processes.

### Oecotrophology

Oecotrophology teaches interdisciplinary skills which find application in the services sector, in consulting and higher education, as well as in the nutrition industry and food industry. The course of study offered in the Faculty of Oecotrophology, which is situated in Münster, particularly looks at the manifold interdependencies between the environment and society with regards to quality of living.

## Nursing

Improving quality standards in the nursing and health sectors: Against the background of the structures of services provided by the health service, this poses the central challenge to teaching and research in the Faculty of Nursing in Münster. The courses of study Nursing Management and Nursing Pedagogy qualify our students for specific application areas in the management of nursing services as well as in vocational education, advanced training and higher professional training.

## Engineering Physics

The Faculty of Engineering Physics develops solutions for research, development, production, measuring and testing technology and quality assurance, which are grounded in classical engineering and the sciences. Focal areas of interest of the faculty, whose cutting-edge laboratories are located in Steinfurt, are biomedical technology, laser applications technology and technical orthopedics.

## Social Studies

The course of study in the Faculty of Social Studies in Münster teaches subject-specific knowledge, professional skills and professionalism relevant to all application of social work. The study offers are supplemented by an internet-based open university course and advanced course of study in Social Management.

## Business Administration

The education of business economists in the Faculty of Business Administration in Münster is based on solid facts, application-oriented and international. In addition to the course in Economics, the faculty offers the so called European Business Programmes (EBP), which are arranged in co-operation with international partner universities, and a German – Latin American course of study (CALA). Beyond this, numerous opportunities for exchanges with top-class universities abroad exist.

## IBL

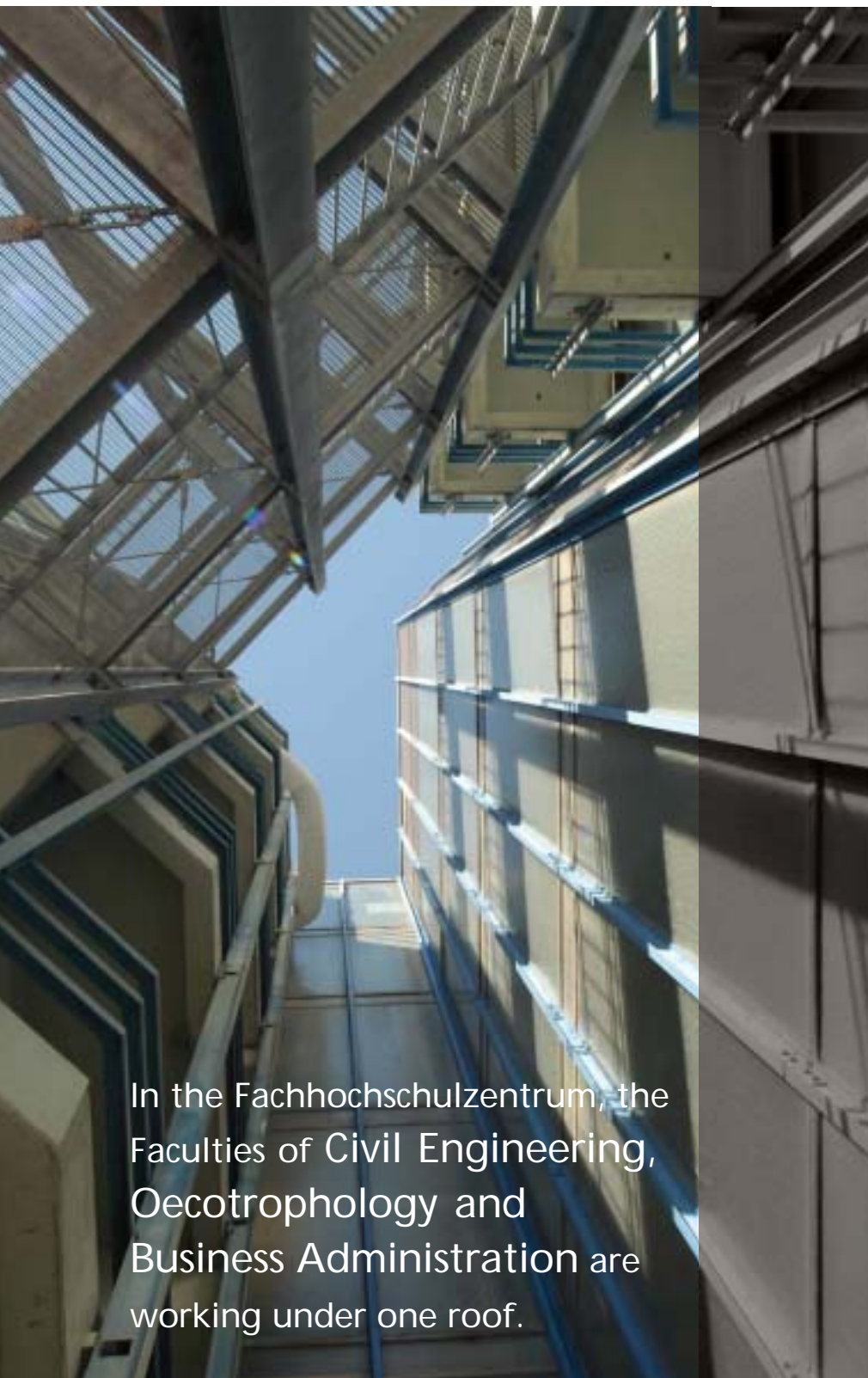
The Institut für Berufliche Lehrerbildung (IBL, *Institute of Teacher Training for Vocational Education*), which is situated on the Leonardo-Campus in Münster, is the unit for teaching, research and services in Bachelor and Master courses in vocational education. The Fachhochschule Münster and the University of Münster co-operate to explore new paths towards a demand-oriented and practice-related training of teachers for vocational education.

## ITB

The Institut für Technische Betriebswirtschaft (ITB, *Institute for Technical Business Studies*) is offering two courses of study at the Steinfurt campus of the Fachhochschule Münster. A part-time course of studies in Technical Business Studies geared towards professionals combines studies in business economics and engineering. A full-time course in Industrial Engineering is offered with three different specialisations in Chemical Engineering, Mechanical Engineering and Physical Engineering.

## ZWEFL

Services to support the core business in enterprises form the common target of the courses of study offered under the aegis of the Zentrale Wissenschaftliche Einrichtung für Logistik und Facility Management (ZWEFL, *Central Academic Institution for Logistics and Facility Management*). The subject-specific competences of six faculties of the Fachhochschule Münster are bundled together and combined in the courses of study in Logistics and Facility Management.



In the Fachhochschulzentrum, the  
Faculties of Civil Engineering,  
Oecotrophology and  
Business Administration are  
working under one roof.

## Courses of Study

- Applied Information Sciences: B
- Applied Materials Sciences: M
- Architecture: B, M
- Biomedical Technology: M
- Building and Environmental Engineering: B
- Chemical Engineering: B, M
- Civil Engineering: B, M
- Conceptual Design Development and Organisation in Youth Work: M
- Design: B, M
- Economics: B
- Electrical Engineering: B
- Engineering Physics: B
- European Business Programme (EBP): B
- German-Latin American Course of Study in Business Economics (CALA): B
- Higher degree course Master of Auditing, Finance and Taxation: M
- Industrial Engineering: B, M
- Informatics in Mechanical Engineering: B
- Information Technology: M
- International Management: M
- Logistics: M
- Mechanical Engineering: B, M
- Nursing and Health: B
- Oecotrophology: B
- Photonics: M
- Social Work: B
- Social Work (part-time internet-based open university course for professionals): B
- Social Management (part-time course of advanced studies for professionals): M
- Subject Specific Education for Youths and Adults\*: B
- Sustainable Service and Nutrition Economy: M
- Teacher Training for Vocational Education: Co-operative Teacher Education\*: B, M
- Technical Business Studies (part-time course for professionals): B, M
- Technical Orthopedics: B
- Technical Management in Energy, Building and Environmental Engineering: M
- Total Facility Management: B, M
- Vocational Education for Youths and Adults\*: B

B: Bachelor

M: Master

\*: in one of the following subject areas: Civil Engineering, Chemical Engineering, Electrical Engineering, Home Economics and Nutrition, Design, Health/Nursing, Mechanical Engineering, Services/Supply Engineering

## International Co-operations

- Argentina – Rosario
- Australia – Adelaide, Brisbane, Melbourne
- Brazil – Curitiba
- Bulgaria – Sofia
- Canada – Halifax
- Chile – Valdivia
- China – Hangzhou, Wuhan
- Colombia – Santafé de Bogotá, Medellín
- Costa Rica – Heredia
- Cuba – Havana
- Czech Republic – Brunn, Zlin
- Denmark – Aarhus, Horsens, Copenhagen
- Egypt – Cairo
- Ethiopia – Arba Minch
- Finland – Joensuu, Vantaa
- France – Amiens, Bordeaux, Grenoble, Lyon, Nizza
- Greece – Kozani
- India – Bangalore
- Ireland – Tralee
- Italy – Milan, Padua, Parma, Verona
- Japan – Tokyo
- Korea – Seoul
- Latvia – Riga
- Mexico – Guadalajara, Mexico City
- Netherlands – Alkmaar, Arnhem, Nijmegen, Deventer, Enschede, Groningen, Rotterdam
- Norway – Kristiansand, Oslo, Trondheim
- Oman – Muscat
- Poland – Czestochowa, Gliwice, Katowice, Krakowska, Slaska, Szczecin, Warszawa, Wroclaw
- Portugal – Aveiro
- Russia – Ivanovo, Dubna, Ekaterinburg, Moscow, Nowgorod
- Ruanda – Kigali
- Slovakia – Bratislava
- Spain – Barcelona, Madrid, San Lorenzo del Escorial, Valencia
- Sri Lanka – Moratuwa
- Sweden – Kristianstad
- Switzerland – Bern, Geneva, Sitten/Sion, Wädenswil, Lucerne
- Togo – Lomé
- Turkey – Istanbul
- Ukraine – L'viv
- United Kingdom – Belfast, Cardiff, Hull, London, Portsmouth
- Uruguay – Montevideo
- USA – Cortland, San Francisco, Huntingdon, Fresno
- Venezuela – Caracas

## Locations

[www.muenster.de](http://www.muenster.de)

[www.steinfurt.de](http://www.steinfurt.de)

## Münster





The Leonardo-Campus is home to the  
Faculties of Architecture and Care as  
well as to the Institute of Teacher Training  
for Vocational Education.

The campus in Steinfurt is home to five different Engineering faculties and to the Institute of Technical Business Studies.



## A vertical grayscale photograph showing a close-up of a building's exterior. The image is oriented vertically, with the top of the building at the top of the frame. It features a window with a dark frame and a textured surface, possibly a wall or another window pane. The lighting is soft, creating subtle shadows and highlights that define the architectural details.





The Fachhochschule  
Münster stands  
for a consistent service  
orientation in all  
relevant areas.

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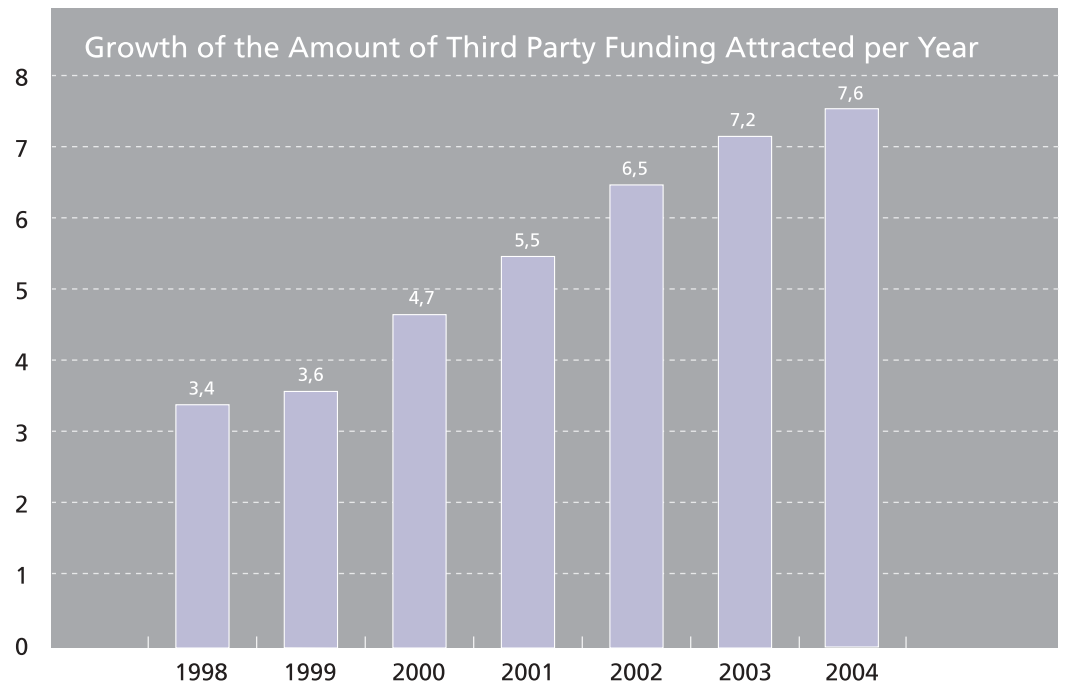
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wirtschaft@fh-muenster.de

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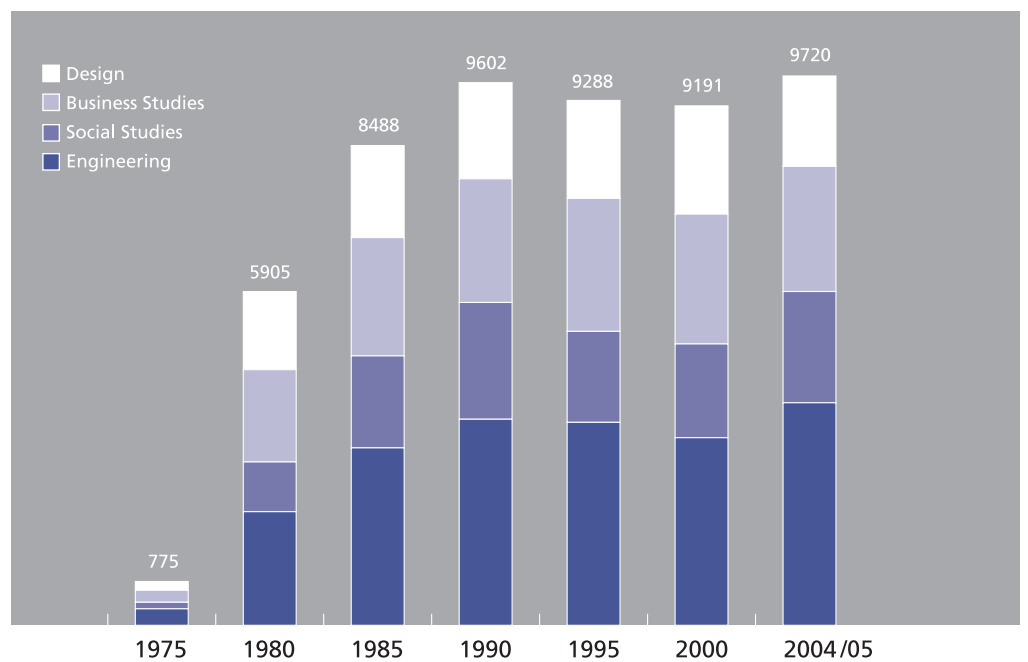
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## Third Party Funding Attracted



## Student Numbers







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