Master in Business Engineering

AT HEC MANAGEMENT SCHOOL - UNIVERSITY OF LIEGE
Key success factors

• A position of excellence through the production of original intellectual work that creates a difference in teaching and expertise, recognized for and by businesses and organizations;
• Strong added-value relations with the real world via the capacity to create durably valuable, mutually beneficial relationships with businesses, coupled with a long intellectual tradition;
• A connection to the world through international networks, the regular presence of students and teaching staff of many nationalities, and their international mobility and communication tools;
• Efficient and innovating governance;
• An openness towards the world because of its crossroads location at the center of Europe and its ease of access and because of its multilingual culture, its multitude of frontiers and the dynamism of its exports.

30 minutes from Maastricht and from Aachen
1 hour from Brussels and from Köln
2 hours from Luxembourg and Frankfurt
2.5 hours from Paris
3 hours from London.

Our Strategic Objectives

• To strive for academic excellence;
• To foster international relations;
• To ensure the relevance of programmes and activities to a managerial career.

HEC-ULg provides undergraduate and postgraduate training programs and conducts research activities, while promoting those human values, behaviors and attitudes that are essential for managers.

Our Strategic Identity

Teaching and research are organized around 6 peaks of excellence, which ensure coherence and expertise:
• Asset & Risk Management;
• Social Enterprises & the Social Economy;
• Economic Analysis & Public Governance;
• Supply Chain Management & Quantitative Methods;
• Tax Institute;
• Human Resources Management & Organizational Change.
Are you interested in the issues involved with managing a companies or organizations? Do you want to learn how to summarize and coordinate the different functions and departments within them? Are you interested in technological and scientific processes as added values, and do you already have an initial degree in science or technology?

Then you should consider our Master in Business Engineering (120 ECTS), the perfect blend of management and technology!

The Belgian academic credential of Business Engineer covers all aspects of management, advanced knowledge of the economic context, and knowledge of technological processes.

The aim of HEC-ULg’s Master in Business Engineering is to provide you with an understanding of the stakes involved with technology and innovation, and enable you to incorporate these into management practices. We train managers to be able to converse with all those who contribute to a company – whether engineers, IT professionals, legal practitioners, or others – and to maintain an interface between management and technology, including new technologies: management of technological and production processes (product design and development, operations and logistics management, quality and risk management, environmental management), as well as quantitative methods of management.

To be successful in the Master in Business Engineering, you must have a strong background in quantitative methods (mathematics, statistics), computer science, and science (physics, chemistry, technology).
A general core curriculum (55 ECTS)
The program is structured around a general core curriculum, allowing each student to acquire a solid foundation of knowledge in management-related subjects, a strong ability to model and formalize management problems, and well-developed critical thinking skills.

In addition to the general subjects, this core curriculum also comprises a transversal activity: a seminar on Strategy and Corporate Social Responsibility (5 ECTS). All these subjects are taught in English.

4 specializations (60 ECTS) are directly linked with our Peaks of Excellence and thus benefit from the School's market-leading research, the associated international academic networks, and contributions from the School's large partner companies (chairs, professorships...).

Students must take six subjects (30 ECTS), produce a (project-based) thesis (20 ECTS) and complete an internship in a company (10 ECTS). Both the thesis and the internship are related to the chosen field of specialization. Students thus accumulate 60 credits in the chosen major, which constitutes the highest level of specialization in French speaking community of Belgium.

Career Outcomes
There is a strong demand for this type of profile and this will probably increase in the near future. You will be able to work as:
- Supply chain manager in manufacturing companies;
- Assessor in financial institutions and insurance companies;
- Operations manager for logistics service providers, such as 3PL and 4PL (third- and fourth-party logistics) operators, trucking companies, express mail companies, port authorities, rail operators, airports and airline companies, etc;
- Consultant, researcher or business developer for providers of specialized information systems;
- Researcher or analyst for private consulting companies, administrations and organizations, or university research centers; etc.

Financial Engineering
Are you attracted to the professions at the leading edge of Finance and do you want to strengthen your knowledge in the fields of mathematical finance or actuarial studies? If so, this specialization is the right choice for you. Very quantitative in nature, this course will develop your modeling skills for financial markets and instruments. The aim is to provide you with the methods and techniques you need to take an active part in the development, management and control of financial products and services with high scientific and technical added value. There is a strong focus on mastering concepts and techniques and opportunities to use them in an innovative context. By choosing this specialization, you are deliberately positioning yourself in an international context.

Career Outcomes
You will be well prepared to work in:
- Asset management positions (management of mutual funds/pension funds/hedge funds, etc.) involved with portfolio structuring;
- Professions relating to the modeling and management of complex risks (use of derivatives, cash flow, credit, operational risks) in the finance sector;
- Professions in investment banking relating to the preparation and deployment of complex strategies for the origination, evaluation and exchange of financial equities, including in the context of mergers and acquisitions.

Performance Management and Control focuses on optimizing the practice of professions in financial management and general management. Equipped with a transversal and global overview of the different professions and functions that coexist within companies, you will master the accounting, financial, auditing and legal techniques necessary to fully understand how the organization manages its human, technical and financial resources, with the aim of achieving optimal utilization of resources. You will be able to create the procedures, processes and mechanisms needed to guide the performance of an organization wisely in the medium and long term.

Career Outcomes
This course is a fast-track to directorship roles in all types of companies and organizations, takeover of existing companies, or roles as administrator or independent administrator on Administration Committees. The course gives access to many professions, both in financial management and performance management.
> **Intrapreneurship** trains you to manage complex projects in an enterprise. This hands-on course (60 ECTS) is aimed at students in 2nd year Master in Business Engineering, selected through an application process. It center...
Admission requirements
The Master in Business Engineering is open to undergraduate students who have completed a full university bachelor’s degree in Management (3 or 4-year Program). Other undergraduate students may also be accepted depending on their professional and/or academic profile and the Admission Jury’s decision.

To apply, please submit the application form available on request: admission.be@ulg.ac.be
Your application file (including all the requested documents) should be forwarded to:
University of Liege - Admission Office, Place du XX-Août, 7-9 Bat A1, 4000 Liège – Belgium

Deadline for non EU applicants › end April
Deadline for EU applicants › end August

Student’s personal development tools
Numerous possibilities are available to help you improve your personal development:

• A Skills Portfolio, composed of intensive workshops using very innovative and original methods such as drama, role-playing, musical creation, sports-based workshops for example. The focus is on the acquisition of transversal skills such as negotiation, written and oral communication, team leadership, critical thinking, etc. These workshops are taught in very small groups of students. It is a unique opportunity to personalize your training and a quick and efficient way of showing evidence of these skills to recruiters!
• A compulsory internship in a company, in Belgium or abroad
• 5-month study trip abroad
• Several Junior Enterprises and Junior Companies managed by the students, providing services to the community and consultancy work.

A participative teaching method and a strong international dimension
Our teaching uses numerous references to real and concrete cases, and even in-company immersion. It is centered on a task, readings, a project, simulations, or case studies, done either individually or in teams. Courses approach subjects from a resolutely international angle.
The program’s Faculty has an international profile, and invites external conference speakers. We consider the development of language skills other than the mother tongue to be essential: the program includes the obligation to learn a second foreign language (Dutch, German, Spanish, or Italian) with the aim of achieving level C1 (according to the Common European Framework of Reference for Languages) by the end of Master 2. The program also offers the possibility of studying a third language (beginner level).

Double Degree Program
At Master level, we have developed specific double degree agreements with several strategic partner universities. Through these value added agreements, during your master studies, you will have the opportunity to study for one year in one of these partner universities. After completion of your two-year program, you will receive a Master in Business Engineering degree from HEC-ULg plus the degree of the partner institution. Up to now, we have developed double degree agreements with Ghent University, the University of Hohenheim and EM Strasbourg Business School. HEC-ULg International Relations team, in cooperation with academics, is currently working on other projects. HEC-ULg is also part of the University Network HERMES, a strategic alliance of 16 leading European universities.