UCLouvain

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INFO2M - Introduction

Introduction

Introduction

This Master's degree programme strikes a balance between "soft skills" and scientific/technical skills as well as between high quality research and practical field work. It offers

- the study of computer science based on fundamental concepts, the value of which goes beyond rapidly evolving technology;
- a programme taught entirely in English to improve students' language skills (technical written and spoken English);
- exchange programs and dual degrees in Belgium, Europe and throughout the world.

As with the Bachelor's degree in civil engineering, this programme seeks to train well-rounded engineers by offering majors in related disciplines such as applied math, or electronics and communication.

Your profile

You would like to

- **imagine, design and implement** computer systems that will shape the future;
- **focus on computer science and engineering** after having studied science and technology (math, mechanics, electricity, chemistry, etc.) as an undergraduate student;
- improve your **theoretical knowledge** and develop technical skills;
- increase your **interdisciplinary knowledge** in areas such as foreign languages, resource management, teamwork, autonomy and ethics;
- expand your training to include management and small and medium sized business creation;
- take advantage of a programme taught entirely in **English**.

Your future job

We train

- **scientists** who know how to investigate a sharp problematic using scientific literrature in the field;
- **professionals** who will design information systems that correspond to user needs;
- **innovators** who can master a wide range of technology and record its progress;
- **specialists** capable of implementing software solutions with particular attention to product quality and the development process.

Your programme

This Master's degree consists of:

- a **compulsory part** providing the knowledge necessary to model and design complex applications
- a major of your choice that allows you to acquire cutting edge knowledge in an area of interest
- at the heart of computer sciences: **artificial intelligence, computer networks, cryptography and information security, software engineering, and system programming**;
- at the frontier with other engineering sciences: **communication networks, applied mathematics and data science, biomedical engineering, and bioinformatics**;
- beyond computer science: **management and small and medium sized business creation**;
- **elective courses** that allow you to focus your training on your areas of interest, whether they be computer science or any other discipline (electricity, management, business creation, languages);
- a **graduation project** (representing half your workload during the last year) offers the possibility to discuss a subject in-depth. Due to its size and scope, this project allows for an initiation into the working life of computer scientists and/or researchers. The project's subject is selected in consultation with the programme heads and possibly a company.

INFO2M - Teaching profile

Learning outcomes

Designers and developers of tomorrow's computer systems are confronted with two major challenges:

- computer systems that are increasingly complex
- areas of application that are increasingly varied

To meet these challenges, the future Master's degree holder in computer science must:

- master current computer science technologies but also manage and ascertain their progress,
- innovate by integrating elements linked to artificial intelligence, software engineering and security networks into computer systems,
- work as a member of an multidisciplinary team and act as an interface between the development team and other participants involved in the scientific or technical issues of the project.

The future computer science engineer will acquire the skills and knowledge necessary to become:

- a professional engineer capable of integrating several scientific and technical disciplines in the area of information technology
- an individual with field experience, capable of putting his/her knowledge into practice and use ever evolving high performance tools (both in research and technology)
- a specialist having acquired cutting edge knowledge in his/her field of study, for example artificial intelligence, security networks, software engineering and programming systems
- a manager who manages team projects

Polytechnic and multidisciplinary, the training offered by the Louvain School of Engineering (EPL) emphasises a combination of theory and practice open to computer science in all its dimensions (analysis, design, development, implementation, maintenance, research and innovation) including those pertaining to ethics.

International possibilities:

English is the most widely used language in companies particularly those in the technical sector. This Master's degree programme is thus taught in English and provides its participants with the opportunity to acquire solid oral and written English language skills. Offering a Master's degree in English, is proof of our international status. The use of English allows us to welcome international students all the while allowing these students to be immersed in a francophone environment. It also includes exchange programs and dual diplomas with foreign universities.

On successful completion of this programme, each student is able to :

1. demonstrate their mastery of a **solid body of knowledge and skills** in computer science allowing them to solve problems associated with their field of study

1.1. Confronted with a computer science problem, diploma holders **can identify concepts, algorithms, and applicable data structures** to find a solution and can break the problem down into its component parts in order to formulate computer-based problem solving methods.

1.2. Confronted with a problem in their field of study, diploma holders can **choose the proper problem solving tools** (for example, development environment, programming language, software and software packages) that will allow them to find the correct software solution to the problem in question.

1.3. Confronted with the results obtained through reasoning as well as the use of tools and concepts, diploma holders are able to step back and ascertain the relevance and the quality of their results. To do so, diploma holders develop tests and relevant checks to **ensure they have developed quality solutions**.

2. organise and **develop a computer system** that meets the complex needs of a client

2.1. Before working on a solution, **graduates explore and analyse all aspects of a problem** using the documentation at their disposal

3.1. Confronted with a new computer problem, graduates will **explore** the area in question and obtain the necessary information to **complete a situational analysis** using the various resources at their disposal (library, Internet, researchers, industry experts)

3.2. In the graduation project (possibly paired with a company internship) on a new problem, graduates **construct a model** of the underlying phenomenon from a computer science perspective. On the basis of this model, **graduates formulate and test different computer devices capable of solving the problem in question** (for example, computerised processing of an image by a scanner to facilitate medical diagnosis)

3.3. Once in possession of the experimental results, graduates summarise their conclusions in a report, where they also discuss **how key variables influenced the behaviour of the phenomenon being studied**. Based on their results, graduates will make recommendations about how to **develop and implement innovative technical solutions f**or the problems in question.

4. Participate in a group project

4.1. As a member of a team project, graduates will collaborate to study a problem and its context with the goal or itemising its different parts, issues and constraints. They will then collaborate **to draft a specifications note reiterating the key elements of the project framework:** problem and solution, objectives and performance indicators, risks, deadlines, resource limits, etc.

4.2. Once the project framework is defined, graduates **collaborate on a plan of action**. The team agrees to work collectively on a work schedule, the intermediary steps, the division of labour and project deadlines.

4.3. Team members share their knowledge and skills **to solve problems collectively** that are raised over the course of the project whether they are technical or not. Graduates are able to step back when necessary to overcome team difficulties or conflicts:

4.4. Mindful of the commitments made during the course of the project, graduates alert their teammates about decisions that need to be made in the event of a problem. Through steering committee meetings, graduates **make the necessary decisions** to organise or reorganise project objectives.

5. Communicate effectively orally and in writing with the goal of carrying out projects (in particular in English)

5.1. Faced with a computer development project, graduates are able to identify and question the relevant actors. **Through their exchanges with those involved in the project, graduates assess the project environment and relevant issues**, which requires them to specify their needs, expectations and limits in a specifications note while keeping in mind system functionalities as well as the conditions for use (interfaces with other applications, maintenance, progress, etc.)

5.2. By communicating, **graduates take into account the fact that their interlocutors have not necessarily mastered the language of computers** and do not have the same idea of the issues and solutions envisaged by computer science.

5.3. In certain critical phases of a project, there are collective choices to be made. To facilitate decision making, the graduate must **be capable of providing his/her interlocutors with a summary of the situation and its issues**. To this end, he/she is capable of communicating necessary information by using schemas or graphs of the computer system.

5.4. Graduates know how to use reference materials or computer language or software manuals in both English and French. They **understand technical reports written in English**.

5.5. During the development of a computer application, graduates **can ensure the tracking and documentation in a concise and precise language**: specifications note, software structures and their related data, operating modes. Graduates are also capable of drafting summary reports that describe their design and technology choices.

6. Demonstrate autonomy, rigor, openness, critical thinking as well as a sense of ethics when doing your job

6.1. In their fields of study, students **master the technical vocabulary and usage standards** that allow them to easily understand a scientific article or technical document or to communicate with specialists in their field.

6.2. Graduates will take into account the socio-economic aspects of a project in the specifications note, in particular the compatibility between technological progress and ethical standards

6.3. Regarding the development of an application that meets an industrial challenge or provides an important service (for example ambulance management), **graduates will ensure the robustness and feasibility** of the application for its users.

6.4. Confronted with a new problem**, graduates autonomously acquire and use information and computer tools that they need to solve the problem** even if they have not explicitly learned about them during their coursework.

Programme structure

The Master's degree programme consists of four parts:

- Core curriculum, focused on the graduation project (35 credits)
- Required final specialisation, mandatory training (30 credits)
- One or more majors allowing you to specialize in a field of computer science (20 to 55 credits)
- Elective courses (0 to 55 credits)

The graduation project is normally completed in the last annual block. Regarding required and elective courses, students may (depending on their major) take these courses in the 1st or 2nd year as long as they have completed the course prerequisites. This is particularly the case for students who completed part of their education abroad. The yearly distribution of activities as outlined in the detailed programme is subject to change.

Furthermore, students have the opportunity to broaden their education by enrolling in non-technical elective courses if they have a clear objective in mind.

MAJORS FOR THE MASTER'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING

Students have to choose one or several options among:

MAJOR IN ARTIFICIAL INTELLIGENCE: BIG DATA, OPTIMIZATION AND ALGORITHMS

MAJOR IN SOFTWARE ENGINEERING AND PROGRAMMING SYSTEMS

Student completing the major in Software Engineering and Programming Systems will be able to: Understand and explain problems pertaining to large scale software projects as well as the critical impact of their solutions throughout the duration of the project (construction scope, validation, documentation, communication and large scale project management as well as expense limits and deadlines), Choose and apply engineering methods and tools related to complex software systems to meet strict quality control criteria: reliability, adaptability, upgradeability, performance, security, usability), Model products and processes necessary to obtain such systems and analyse the models in question, Design and create programmes to analyse, convert and optimise computer performance, Put to good use different programming language paradigms, in particular those that deal with competing functional and object oriented programmes, Understand the issues associated with different competing programming models and use the appropriate model, Define a new language (syntax and semantics) appropriate to a specific context.

O Mandatory
⊗ Optional
△ Not offered in 2024-2025
⊘ Not offered in 2024-2025 but offered the following year
⊕ Offered in 2024-2025 but not the following year
△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
🌐 Open to incoming exchange students
🌐 Not open to incoming exchange students
[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Students shall select 20 to 30 credits among

OR IN DATA SCIENCE AND APPLIED MATHEMATICS

major is available only to students who majored or minored in Applied Mathematics during their bachelor's degree programme.
ents completing the major Computing and Applied Mathematics will be able to: Understand both applied mathematics and
uting including algorithms, scientific calculations, computer system modelling, optimisation, automated learning or data
g, Understand and use the methods and techniques related to advanced algorithms such as optimisation methods, constraint
amming, algorithms of graphs, numerical algorithms or analysis and design of algorithms, Identify and use models and techniques
ng to statistics, automated learning and data mining; understand categories of applications used for the processing of raw data as
s automatic forms used to mine information out of large data sets.

⚪ Mandatory
❁ Optional
△ Not offered in 2024-2025
⊘ Not offered in 2024-2025 but offered the following year
⊕ Offered in 2024-2025 but not the following year
△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
🌐 Open to incoming exchange students
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[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

The student shall select 20 to 30 credits among

					Year	
					1	2

⚪ *Content:*

⚪ Required courses in Data Science and Applied Mathematics (20 credits)

⚪ LINMA2472	Algorithms in data science	Jean-Charles Delvenne (coord.) Benoît Legat (compensates Vincent Blondel)	EN [q1] [30h+22.5h] [5 Credits] 🌐 > *French-friendly*	x	x	
⚪ LINMA2710	Scientific computing	Pierre-Antoine Absil Benoît Legat	EN [q2] [30h+22.5h] [5 Credits] 🌐 > *French-friendly*	x	x	
⚪ LINFO2275	Data mining & decision making	Marco Saerens	EN [q2] [30h+15h] [5 Credits] 🌐 > *French-friendly*	x	x	
⚪ LINFO2364	Mining Patterns in Data	Siegfried Nijssen	EN [q2] [30h+15h] [5 Credits] 🌐 > *French-friendly*	x	*Marco Saere*	

MAJOR IN BIOMEDICAL ENGINEERING

This major is available only to students who minored in biomedical engineering during their Bachelor's degree programme. The objective of the biomedical engineering major is to train engineers who are capable of meeting future technological challenges in the scientific and technical fields related to biomedical engineering. This major provides students with basic knowledge about bioinformatics as well as other biomedical engineering fields such as bioinstrumentation, biomaterials, medical imaging, mathematical modelling, artificial organs and rehabilitation and biomechanics. The collaboration between the Louvain School of Management and the School of Medicine provides an interdisciplinary curriculum where engineering is applied to the complex and varied biomedical field.

O Mandatory
⊗ Optional
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🟨 Activity with requisites
🌐 Open to incoming exchange students
🌐 Not open to incoming exchange students
[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Students shall select 20 to 30 credits among:

Year

1 **2**

o *Content:*

o Required courses in biomedical engineering

				Year 1	Year 2
⊗ LGBIO2010	Bioinformatics	Vincent Branders (compensates Pierre Dupont)	[EN] [q1] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LGBIO2020	Bioinstrumentation	André Mouraux Dounia Mulders (compensates Michel Verleysen)	[EN] [q2] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LGBIO2030	Biomaterials	Sophie Demoustier Christine Dupont	[EN] [q1] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LGBIO2040	Biomechanics	Greet Kerckhofs	[EN] [q2] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LGBIO2050	Medical Imaging	Greet Kerckhofs John Lee Benoît Macq	[EN] [q1] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LGBIO2060	Modelling of biological systems	Hari Teja Kalidindi (compensates Philippe Lefèvre) Laurent Opsomer (compensates Philippe Lefèvre)	[EN] [q1] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LGBIO2072	Mathematical models in neuroscience	Frédéric Crevecoeur	[EN] [q1] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LINFO2381	Health Informatics	Sébastien Jodogne	[EN] [q2] [30h+30h] [5 Credits] 🌐 > *French-friendly*	x	x

OPTION EN CYBERSECURITY

Students who have completed the "Cybersecurity and Information Technology" track should checurity aBERSECURITY

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Students who have completed the "Cybersecurity and Information Technology" track should checurity aBERSECURITY

OPTION NETWORKS AND SYSTEMS

Students who have completed the "Networks and Systems" track should be able to:

• Understand and explain different devices and protocols used in computer and cellular networks;
• Design, configure and manage computer networks while taking into account application needs;
• Understand the operation of IoT and cellular networks;
• Explain the problems that affect cellular and IoT networks and develop solutions to cope with them;
• Understand how to optimise applications to efficiently use parallel cores;
• Understand, implement and use lock-free data structures;
• Understand the interactions between real-time operating systems and hardware;
• Design and implement applications running on embedded systems

O Mandatory
⊗ Optional
△ Not offered in 2024-2025
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⊕ Offered in 2024-2025 but not the following year
△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
🌐 Open to incoming exchange students
🌐 Not open to incoming exchange students
[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Students shall select 20 to 30 credits among:

	Year
	1 2

o Content:

o Required courses in Networks and systems

| O LINFO2142 | Computer networks: configuration and management | Olivier Bonaventure | |

OPTION EN INFORMATIQUE MÉDICALE

Students completing the major in "Health informatics" will be able to:

- Identify and use methods and techniques that provide software-based solutions to complex problems encountered in hospitals, in bio-pharmaceutical environments, in life sciences, or in digital health.
- Take part in multidisciplinary projects bringing together medical, biological and engineering expertise to the benefit of patient health.
- Understand and put to good use the methods and techniques pertaining to medical informatics and bioinformatics, such as artificial intelligence, health interoperability, clinical knowledge structuring, applied statistics, information security, software quality, as well as the effective management and processing of large volumes of data.
- Understand specific categories of applications where these methods and techniques can be applied, such as diagnostic support, therapeutic assistance, hospital information systems, medical and biomedical imaging, smart devices, clinical trials, health data mining, as well as automated processing of the medical language.
- Formalize and structure a body of complex knowledge by using a systematic and rigorous approach to the development of high-quality medical and biomedical information systems.

O Mandatory
✖ Optional
△ Not offered in 2024-2025
⊘ Not offered in 2024-2025 but offered the following year
⊕ Offered in 2024-2025 but not the following year
△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
🌐 Open to incoming exchange students
🌐 Not open to incoming exchange students
[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Students shall select 20 to 30 credits among:

Year
1 2

o *Content:*

Year

1 2

Year

COURS AU CHOIX EN CONNAISSANCES SOCIO-ÉCONOMIQUES

O Mandatory
⊗ Optional
△ Not offered in 2024-2025
⊘ Not offered in 2024-2025 but offered the following year
⊕ Offered in 2024-2025 but not the following year
△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
🌐 Open to incoming exchange students
🌐 Not open to incoming exchange students
[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

o Content:

				Year 1	2
⊗ LFSA2995	Company Internship	Dimitri Lederer Jean-Pierre Raskin	FR [q1+q2] [30h] [10 Credits] 🌐	x	x
⊗ LINFO2399	Industrial seminar in computer science	Yves Deville Bernard Geubelle	EN [q2] [30h] [3 Credits] 🌐 > *French-friendly*	x	x
⊗ LINFO2402	Open Source Project		EN [q1+q2] [0h] [5 Credits] 🌐 > *French-friendly*	x	x
⊗ LEPL2021	Innovation classes for transition and sustainable development	Benoît Macq Xavier Marichal (compensates Benoît Raucent) Viktória Nagy (compensates Benoît Raucent)	ES [q1] [30h+15h] [5 Credits] 🌐	x	x

OTHERS ELECTIVE COURSES

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O Mandatory
⊗ Optional
△ Not offered in 2024-2025
⊘ Not offered in 2024-2025 but offered the following year
⊕ Offered in 2024-2025 but not the following year
△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
🌐 Open to incoming exchange students
🌐 Not open to incoming exchange students
[FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year 1 2

o Content:

Les étudiant·es peuvent également inscrire à leur programme tout cours faisant partie des programmes d'autres masters de l'EPL moyennant l'approbation du jury restreint.

⊗ **Languages**
Students may select from any language course offered at the ILV. Special attention is placed on the following seminars in professional development:

				Year	
				1	2
⌘ LALLE2501	Professional development seminar-German	Caroline Klein (coord.) Mélanie Mottin (compensates Caroline Klein)	DE [q1+q2] [30h] [5 Credits] 🌐	x	x
⌘ LESPA2600	Vocational Induction Seminar - Spanish (B2.2/C1)	Paula Lorente Fernandez (coord.)	ES [q1] [30h] [3 Credits] 🌐	x	x
⌘ LESPA2601	Vocational Induction Seminar - Spanish (B2.2/C1)	Paula Lorente Fernandez (coord.)	ES [q1] [45h] [5 Credits] 🌐	x	x
⌘ LNEER2500	Seminar of Entry to professional life in Dutch - Intermediate level	Isabelle Demeulenaere (coord.)	NL [q1 or q2] [30h] [3 Credits] 🌐		

Teaching method

Active teaching strategies and non-technical skills

The teaching methods used in the Master's degree programme in civil engineering are consistent with those of the Bachelor's degree programme in engineering sciences: active learning, an equal mix of group work and individual work, and emphasis on the development of non-technical skills. In particular, our pedagogy prioritises projects (including a large scale project that puts student groups in a semi-professional situation).

Students will be exposed to various teaching methods: lectures, exercise sessions, problem solving sessions, case studies, industry or research internships, group work, individual work, seminars and conferences offered by the industrial sector. This variety of teaching techniques helps students to build their knowledge in an iterative and progressive manner while at the same time develop their autonomy as well as their organisation, time management and communication skills.

Use of Foreign Languages

Globalisation demands that all societies open up to foreign markets. In addition, the main language used in computer science is English. The use of English throughout the programme allows students to develop their mastery of this language, which will facilitate their integration into universities and foreign companies. Course materials as well as educational support are in English. However, students may express themselves in French during class or evaluations. Specifically, the Master's thesis or graduation project may be written and defended in English or French.

Furthermore, the programme foresees the possibility of taking language classes at the ILV and participating in study abroad programs.

Overall, the programme is taught in English with the exception of the biomedical engineering major and the majors in management and small and medium sized business creation.

Open to other disciplines

Students are encouraged to enlarge their training to include other engineering sciences and techniques, management as well as the humanities and social sciences. In fact, over the course of their careers, computer scientists must manage (team) projects and show an interest in the complex socio-economic context in which computer science takes place. They must dialogue with colleagues from different educational backgrounds who prioritise other aspects of a project. Thus it is imperative that students enlarge their field of vision beyond computer science.

Evaluation

The evaluation methods comply with the regulations concerning studies and exams. More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Student work is evaluated according to University rules (see the rules for evaluating coursework and exams) namely written and oral exams, laboratory exams, individual or group work, public presentations of projects and theses defences. For classes taught in English, questions are in English. Students may respond in French. For classes taught in French, questions are in French. Students may ask for help translating the questions into English and respond to them in English.

Certain activities completed during the semester and supervised by a teaching team in collaboration with students do not take place outside of the class session. Thus they are not re-evaluated in a future course session.

At the beginning of the semester, professors will explain their marking scheme, which is based on the learning outcomes of the course (that it frequently shares with those of the Master's degree programme).

For more information on evaluation methods, students may consult the relevant evaluation descriptions.

To obtain a passing grade, the marks received for the teaching units are offset by their respective credits.

Mobility and/or Internationalisation outlook

Over the years, EPL has developed over a hundred partnerships with partners in more than 36 countries (EU and non-EU) to offer exchange programmes to its students. We also offer the possibility of obtaining Double degrees, Joint Degrees or Dual Masters in several fields. The EPL is currently participating in two Erasmus Mundus programmes: FAME and STRAINS.

In addition to exchange programmes under the Erasmus+ programme, numerous agreements have been established with a wide range of universities through various partner networks such as:

- TIME network (Top Industrial Managers in Europe).

- CLUSTER network

- Magalhães network

- Circle U. network through several networks and European University Alliance

So, there's no shortage of opportunities to gain an additional qualification and/or spend part of the year abroad during your two-year Master's degree! It's the perfect opportunity to discover or improve your knowledge of a foreign language, tackle subjects from a new angle and gain unique experience in Europe or the rest of the world.

If you would like more information, please visit the dedicated pages of the EPL International Office to discover all the destinations, testimonials from former students and all the procedures to follow to make these opportunities a success.

Possible trainings at the end of the programme

Doctoral programmes

The Master's degree in civil engineering and computer science may be followed by a doctoral degree programme in engineering sciences. Doctoral degrees are offered by thematic doctoral degree granting schools.

UCLouvain Master's degrees (about 60) are accessible to UCLouvain Master's degree holders

For example: