



UNIVERSITY OF LUXEMBOURG

# Doctoral researcher (PhD candidate) in Computer Science

Luxembourg, Luxembourg

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## JOB DESCRIPTION

The **University of Luxembourg** is an **international research** university with a distinctly **multilingual** and **interdisciplinary** character. The University was founded in 2003 and counts more than 6,700 students and more than 2,000 employees from around the world. The University's faculties and interdisciplinary centres focus on research in the areas of Computer Science and ICT Security, Materials Science, European and International Law, Finance and Financial Innovation, Education, Contemporary and Digital History. In addition, the University focuses on cross-disciplinary research in the areas of Data Modelling and Simulation as well as Health and System Biomedicine. Times Higher Education ranks the University of Luxembourg #3 worldwide for its "international outlook," #20 in the Young University Ranking 2021 and among the top 250 universities worldwide.

**The Faculty of Science, Technology and Medicine (FSTM)** contributes multidisciplinary expertise in the fields of **Mathematics, Physics, Engineering, Computer Science, Life Sciences** and **Medicine**. Through its dual mission of teaching and research, the FSTM seeks to generate and disseminate knowledge and train new generations of responsible citizens, in order to better understand, explain and advance society and environment we live in.

The joint team of Prof. Henderik Proper (adjunct professor at UL and affiliated with LIST) and Prof. Pierre Kelsen, in the Department of Computer Science (DCS) of the Faculty of Science, Technology and Medicine (FSTM), is currently looking for a: **Doctoral researcher (PhD candidate) in Computer Science**

### Your Role...

The PhD project activities will be embedded in the collaboration between the Department of Computer Science at the University of Luxembourg and the IT for Innovative Services (ITIS) department of the Luxembourg Institute of Science and Technology (LIST) in general, and take place in the joint team of Prof. Henderik Proper (adjunct professor at UL and affiliated with LIST) and Prof. Pierre Kelsen in particular.

With the increasing use of knowledge-intensive computing technologies in all domains of our digital intelligent society, such as healthcare, education, logistics, and transportation, also comes an increase in the need to capture relevant domain knowledge by means of domain models.

In the face of such an increase in demand, a matching increase in supply becomes necessary. This actually causes a "modeling bottleneck" in the sense that there is growing lack of modeling skills. One of the solutions to the general shortage of

## ABOUT THE EMPLOYER

The University of Luxembourg aspires to be one of Europe's most highly regarded universities with a distinctly international, multilingual and interdisciplinary character.

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## ACADEMIC STORIES



### Making Perception Engineering a Reality

Professor Steven LaValle, virtual reality pioneer, is laying the foundations for perception engineering, a new field of engineering focuses on the engineering behind virtual reality.



### 6G: An Ultra-Fast Wireless World Beckons

At Queen's University Belfast, a new cellular generation is already on the horizon that will further revolutionise automation and smart technology.



### Tracking the Curve: Analyzing the Emotional Response to COVID-19

Professor Xiangliang Zhang is using machine learning to track the changing emotional response to the global crisis.

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## CAREER ADVICE



### Karolinska Institutet Researchers Investigate Why We React Differently to COVID-19

Career advice



### The Unexpected Benefits of Doing a PhD Abroad

Career advice



### Do You Need Publications to Apply for a PhD Program?

Career advice

(domain) modeling skills is to empower people without modeling background to produce higher quality domain models with the assistance of artificial intelligence (AI), so that everyone can be a domain modeler!

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The goal of this PhD project is therefore the development of a theoretical framework for AI assisted domain modeling, its instantiation and evaluation in terms of a prototype of an assisted domain modeling environment and application to case scenarios.

- Conduct research in line with the topic of the PhD project
- Disseminate results through scientific publications and presentations at conferences
- Write a PhD thesis and obtain a PhD in Computer Science
- Limited teaching activity

### What we expect from you...

- Master's degree in Computer Science or a related discipline
- Some background in modeling and artificial intelligence (such as rule-based systems, knowledge engineering, dialog systems, NLP natural language processing, and machine learning) would be an asset.
- Strong analytical capacity, creativity, and ability for formal reasoning
- Good programming skills
- Good written and spoken English skills

### In Short...

- Contract Type: Fixed Term Contract 36 Month - extendable up to 48 months if required
- Work Hours: Full Time 40.0 Hours per Week
- Employee and student status
- Location: Belval
- Job Reference: UOLO4376

### How to apply...

Applications (in English) should be submitted through the University's HR system and include all of the following:

- Detailed curriculum vitae
- Digital copy of diploma certificates and transcript of records
- A one-page sketch of research statement in line with the topic of the PhD project
- A motivation letter detailing why you intend to undertake a PhD
- Contact information of three referees

Early application is highly encouraged; the position remains open until filled. Selected candidates will be contacted for an oral interview. Only complete applications will be considered.

The University of Luxembourg embraces inclusion and diversity as key values. We are fully committed to removing any discriminatory barrier related to gender, and not only, in recruitment and career progression of our staff.

### In return you will get...

- Multilingual and international character.** Modern institution with a personal atmosphere. Staff coming from 90 countries. Member of the "University of the Greater Region" (UniGR).
- A modern and dynamic university.** High-quality equipment. Close ties to the business world and to the Luxembourg labour market. A unique urban site with excellent infrastructure.
- A partner for society and industry.** Cooperation with European institutions, innovative companies, the Financial Centre and with numerous non-academic partners such as ministries, local governments, associations, NGOs ...

Find out more about the University

Addresses, maps & routes to the various sites of the University

Further information...

For more information please contact Prof. Henderik Proper ([erik.proper@list.lu](mailto:erik.proper@list.lu)) or Dr. Qin Ma ([qin.ma@uni.lu](mailto:qin.ma@uni.lu))

JOB DETAILS

Title

Doctoral researcher (PhD candidate) in Computer Science

Employer

[University of Luxembourg](#)

Job location

[6, rue Richard Coudenhove-Kalergi, L-1359 Luxembourg](#)

Published

August 12, 2021

Application deadline

Unspecified

Job types

[PhD](#)

Fields

[Algorithms](#), [Artificial Intelligence](#), [Information Systems \(Business Informatics\)](#), [Programming Languages](#), [Theory of Computation](#), [Computational Sciences](#), [Machine Learning](#)

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University of Luxembourg

Location: Luxembourg, Luxembourg

Post doctoral fellow in Photovoltaics

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University of Luxembourg

Location: Luxembourg, Luxembourg

Ethics and legal researchers in the area of biomedical data sciences (Research & Development specialist on project)

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University of Luxembourg

Location: Luxembourg, Luxembourg

Doctoral Researcher in Psychology

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University of Luxembourg

Location: Luxembourg, Luxembourg

Doctoral Researcher (PhD) in Photovoltaics

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