PhD position

The Louvain Institute of Data Analysis and Modeling of UCLouvain invites applications for a PhD position in Operations Research, starting in October 2026 or as soon as possible thereafter.

The position is in the context of the collaborative ARC project CoFlex on coordinated flexibility in electricity systems funded by the Wallonia-Brussels Federation. It gathers researchers in operations research, power systems engineering and economics. The project aims to design and evaluate local flexibility markets that allow network users to provide flexibility services to distribution system operators across the three disciplines. It develops scalable and incentive compatible market designs that integrate network constraints and promote efficient use of flexibility at the distribution level.

Host institution and research environment

The position will be hosted at the Louvain Institute of Data Analysis and Modeling in Economics and Statistics (LIDAM) at UCLouvain. LIDAM brings together researchers in economics, econometrics, statistics, and operations research, and offers an active research environment with regular seminars, workshops, and international collaborations.

Your tasks

The doctoral candidate will:

- Complete PhD-level coursework within the doctoral programme at UCLouvain.
- Conduct independent and collaborative research in operations research, under the supervision of faculty members at UCLouvain.
- Develop original research questions and carry out theoretical and numerical analyses using suitable methods in operations research and applied mathematics.
- Prepare and complete a PhD dissertation, with the objective of producing research suitable for publication in international peer-reviewed journals.
- Present research findings at international conferences and academic seminars.
- Contribute, to a limited extent, to teaching or dissemination activities related to the PhD project.

Required Qualifications

Applicants should have:

- A Master's degree (or equivalent) in Operations Research, Applied Mathematics or a closely related field, with a strong quantitative orientation.
- Solid training in mathematical optimization.
- Strong interest in energy systems and markets.
- Experience with numerical, computational, or simulation-based methods.
- Ability to work independently as well as collaboratively in an international research environment.
- Proficiency in English (written and spoken).

Application Procedure

Applications must be submitted in English as a single PDF file, named: Lastname_Firstname.pdf.

The application PDF should contain:

- Motivation letter (max. 1 page).
- Curriculum vitae (expected Master's completion date if applicable)
- Bachelor's and Master's transcripts and degree certificates (if available)
- One writing sample (e.g. Master's thesis, project or research paper)
- Names and contact details of up to two academic referees (letters of recommendation may be requested at a later stage)

Please submit your application through the following form:
https://forms.office.com/Pages/ResponsePage.aspx?id=1JCwei76z068fEEntNWC7Gj_2AGRWiBCnkdGsVZebfFURDczWFA0WVpKUlQ5UkRHMVRLRExaNVIzSC4u

Applications received by 30 April 2026 will receive full consideration.

For more information about this position, please contact:
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