

JOINT KU LEUVEN - SKEMA DOCTORAL PROGRAM IN AI & OR

Call for a Ph.D. position in Operations Research Applied to Health Services (PHD-ORAHS-2022)

SKEMA Business school (France) in collaboration with KU Leuven Faculty of Business Economics (Belgium) has a vacancy for one full-time Ph.D. scholarship starting in September 2022, for a period of four years. The researcher to be hired will work in the field of Operations Research Applied to Health Services under the supervision of [Prof. Erik Demeulemeester](#) and [Dr. Aida Jebali](#). The objective of this research is to develop a holistic approach for operating room planning and scheduling. This work should lead to a Ph.D. degree that will be granted by KU Leuven and SKEMA (SKEMA-KUL Joint Degree doctoral program “AI in OM”). Some keywords related to the Ph.D. research topic are:

- Stochastic programming
- Robust optimization
- Simulation-based optimization
- Data-driven optimization

The candidate will work on the development of models and algorithms at the interface of discrete optimization, simulation and machine learning. This work aims at providing insightful recommendations to hospital decision makers that help in increasing both the efficiency of hospital’s operating rooms and patient’s satisfaction, and achieving better health outcomes. He/she will find a dynamic and pleasant working environment, in a group that is actively involved in scientific research at the highest international level.

Candidates will be expected to participate in seminars and conferences, be internationally mobile and to enroll in both institutes’ Ph.D. programs. The candidate can be asked to give guidance to Bachelor and Master students, and to be involved in teaching activities.

Candidates should have a strong interest in OR and its diverse applications, mainly in health services. He/she should have recently completed a Master’s degree (or soon-to-be completed) in Operations research, Business Engineering, Applied Mathematics, Computer Science, Industrial Engineering or a related field. Graduation with honors in preliminary studies is a requirement, as well as an appropriate command of written and spoken English. Experience with at least one programming language is an asset.

We offer an employment as full-time doctoral scholarship for 1 year at KU Leuven, followed by a 3-year employment at SKEMA Business School (provided that the candidate successfully passes first-year requirements at KU Leuven). The tentative starting date is September, 2022, depending on the availability of the candidate. For more information please contact [Prof. Erik Demeulemeester](#) and [Dr. Aida Jebali](#) via email addresses: erik.demeulemeester@kuleuven.be and aida.jebali@skema.edu.

You can apply for this job no later than **March 25th, 2022** via email address skemakul2022@skema.edu or through the [KU Leuven Jobsite](#). Applications via any other way will not be considered. In the subject of the email, the applicant must indicate the acronym “(PHD-ORAHS-2022)”. When applying, include a motivation letter, a detailed CV, language certificates, transcripts, and contact details of at least two references. The motivation letter should specifically indicate why you are the right person for the vacant position. You can also upload a publication list, photo, and/or other attachments.

SKEMA and KU Leuven are committed to equity and diversity within their communities and value academic rigor and excellence. We welcome and encourage applications from all qualified candidates, regardless of gender, age, cultural background, nationality, or impairments. If you have any questions relating to accessibility or support, please contact us at diversiteit.HR@kuleuven.be.

