

Luxembourg is a dynamic multicultural country in the heart of Europe with a strong biomedical research environment and high international visibility. Within Luxembourg, excellent and innovative biomedical research is carried out at the **Luxembourg Institute of Health (LIH)** and the **University of Luxembourg (UL)** in a highly interdisciplinary team effort with clinical partners such as the **Laboratoire national de santé (LNS)** and the **Centre Hospitalier de Luxembourg (CHL)**. Together, the institutions offer cutting-edge research facilities and an excellent training environment for early-stage researchers and medical doctors in training in the area of Life Sciences and Medicine with focus on translational research and precision medicine.

i₂TRON is a highly innovative PhD training program on “**integrating immune strategies for Translational Research in Oncology and Neurology**” and is supported by the Luxembourg National Research Fund (FNR) within their PRIDE program. We will develop the next generation of translational scientists as boundary crossers, domain experts and skilled communicators. Inflammation is a common hallmark shared across different non-communicable diseases (NCD).

i₂TRON aims to advance our mechanistic insight into failures of the immune system across diverse disease areas including cancer, neurodegeneration, autoimmunity and allergy. Such insights will lead to discoveries of new biomarkers and therapeutic targets of NCDs, and facilitate translation into novel treatment strategies to advance research innovations, and to turn new mechanistic insight into diagnostic and therapeutic strategies to improve patient care.

What we offer:

20 PhD STUDENT positions are available with up to 4 years fixed-term contracts, full-time.

Among these, 4 positions are available for medical doctors in an MD-PhD program that can also be filled part-time over 6.5 years to allow for a parallel specialty training.

Earliest start date will be **January 1st, 2021** after a comprehensive and competitive selection process starting in September 2020. The program includes individualized transferable skills training, career development programs, opportunities for international conference visits, internships in partner institutions regular scientific lectures by leading international speakers and annual PhD retreats. PhD candidates will conduct their research projects in a highly interdisciplinary environment at either LIH, the UL, the CHL or the LNS. All PhD candidates will be enrolled at the University of Luxembourg or – for a limited number of projects in collaboration with the Department of Clinical Research - at the University of Southern Denmark.

The program will allow the candidates to obtain a PhD degree in Systems and Molecular Biomedicine or Health Sciences with a focus on:

- > Cancer Biology and Precision Medicine
- > Immuno-Oncology
- > Allergy Immunotherapy
- > Anaphylaxis
- > Neurodegeneration
- > Microbiome/Metabolism
- > Patient-based Disease Modelling

*Please visit the **i₂TRON** website for details on the available 20 projects: <https://www.lih.lu/page/dtu-iztron>*

We are seeking excellent and highly motivated candidates holding a Master's degree (MSc or equivalent) in a field related to the topics of the PhD program or an MD degree in Medicine interested in becoming a translational scientist at the interface between fundamental and clinical research. Advanced English knowledge in spoken and written is required, as English is the working language.

Applications including a cover letter stating up to 3 project preferences (see project description on the website), a full curriculum vitae with at least 2 references and the relevant diplomas showing marks should be submitted by 15 September 2020 through the following website: www.lih.lu/jobs. Ref: **VD/I₂TRONo720/RK/TTM**

Only complete applications (as outlined above) in English submitted via the LIH application portal will be considered. For any questions on the program or your eligibility to apply for a position, please contact: izTRON@lih.lu