

# INVITATION FOR APPLICATIONS



HiLIFE UNIT



As part of the Nordic EMBL Partnership for Molecular Medicine, FIMM in collaboration with HIIT is seeking outstanding candidates for positions of

## Doctoral Students in Molecular Medicine, Bioinformatics and Data Science starting in August 2018

FIMM ([www.fimm.fi](http://www.fimm.fi)) is an international research institute focusing on human genomics and personalized medicine at the Helsinki Institute of Life Science of the University of Helsinki. FIMM integrates molecular medicine research and technology centre and biobanking infrastructures under one roof promoting translational research in grand challenge projects, specifically, the impact of genome information from the Finnish population in personalized health and medicine, individualized cancer medicine, and digital molecular medicine. The areas of interest of the 18 research groups cover cancer, cardiovascular disease, immune disorders, and neurological and psychiatric diseases.

In the areas of bioinformatics and computational biomedicine, FIMM collaborates with Helsinki Institute for Information Technology HIIT ([www.hiit.fi](http://www.hiit.fi)), a multi-disciplinary research institute focused on basic and applied research on information technology. Modern molecular medicine requires state-of-the-art methodologies in data science, including analysis, visualization and modelling of large data sets; HIIT groups provide world-class excellence in these areas.

FIMM and HIIT work together with the University of Helsinki Doctoral School in Health Sciences (DSHealth) and doctoral programs ([www.helsinki.fi/health/](http://www.helsinki.fi/health/)) and Helsinki Doctoral Education Network in Information and Communications Technology (HICT, [www.hict.fi](http://www.hict.fi)) to provide excellent training and courses aimed at a doctoral degree at the University of Helsinki or Aalto University.

As part of an annual international joint call of the Nordic EMBL Partnership for Molecular Medicine, we currently have five openings for doctoral students who show outstanding potential to become independent researchers and who will significantly benefit from the FIMM-EMBL/HiIT International PhD rotational training. Specifically, these positions are in the fields of molecular medicine (FIMM) and bioinformatics and computational biomedicine (FIMM-HiIT) and data science (HiIT).

Detailed information about the research areas in this call can be found at the following webpages:

FIMM: [www.fimm.fi/en/research](http://www.fimm.fi/en/research)

HiIT: [www.hiit.fi/fimm-hiit-doctoral-student-call](http://www.hiit.fi/fimm-hiit-doctoral-student-call)

Qualifications and experience: Candidates are expected to have a second cycle academic degree (MSc, MD or equivalent) in biology, biochemistry, bioinformatics, biotechnology, cell biology, computer science, genetics, mathematics, medicine, or other related fields, obtained before the end of 2018. The successful candidate will have good problem solving, troubleshooting, and analytical

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skills. In addition, the candidate should be fluent in English, have good interpersonal and written and oral communication skills, and be able to work independently as well as in an international team.

Application and selection process: Candidates are invited to apply online at no later than February 8, 2018 at 23:59 Eastern European Time.

To apply, applicants should submit to the online system the following materials prepared in English:

- Application form: <https://elomake.helsinki.fi/lomakkeet/84437/lomake.html>
- CV or resume (maximum 2 pages)
- Cover and motivation letter (maximum 2 pages) describing, in separate sections, 1) previous and current research experience and studies, 2) motivation for pursuing doctoral studies, and 3) research interests and how these match the research groups at FIMM and HIIT

The letter and CV must be submitted as a single PDF file named with the candidate's surname. Please note that candidates are expected to carefully follow the application instructions above. Applications submitted after the deadline, failing to meet the requirements above, or sent directly to group leaders will not be considered.

Application review will begin after the close of the call. Top candidates will be jointly selected by FIMM and HIIT and invited for an interview with a selection committee in early May 2018. The final candidates selected for the positions will be offered an initial contract for 18 months, during the first half of which they will engage in training through research group rotations. Upon a successful review and selection of a research group after the rotational period, the initial contract will be extended up to a four-year period.

For further information about:

- FIMM, research training at FIMM and this open call, please visit [www.fimm.fi](http://www.fimm.fi), [www.fimm.fi/en/training](http://www.fimm.fi/en/training)
- HIIT, please visit [www.hiit.fi](http://www.hiit.fi)
- University of Helsinki Doctoral School in Health Sciences and doctoral programs, please visit [www.helsinki.fi/health/](http://www.helsinki.fi/health/)
- Helsinki Doctoral Education Network in Information and Communications Technology (HICT), please visit [www.hict.fi](http://www.hict.fi)
- University of Helsinki International Staff Services, please visit [www.helsinki.fi/intstaff/](http://www.helsinki.fi/intstaff/)

*FIMM is part of the Nordic EMBL Partnership for Molecular Medicine, composed of the European Molecular Biology Laboratory (EMBL) and the centers for molecular medicine in Norway, Sweden and Denmark, and the EU-LIFE Community. In the beginning of 2017 FIMM joined the University of Helsinki's new life science research centre, Helsinki Institute of Life Science HiLIFE, as an operational unit.*

*Helsinki Institute for Information Technology HIIT ([www.hiit.fi](http://www.hiit.fi)) is a joint research institute of Aalto University and the University of Helsinki. HIIT's research ranges from fundamental methods and technologies to novel applications and their impact on people and society. Current research foci at HIIT include computational modelling and data analysis, and ubiquitous ICT in the modern networked world. HIIT is located at University of Helsinki's Kumpula campus and Aalto University's Otaniemi campus.*

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Institute for Molecular Medicine Finland FIMM  
Helsinki Institute for Information Technology HIIT