

To seek one excellent PhD candidate in Immunology and one Postdoc candidate in computational biology or bioinformatics

The Immune Systems Biology Group, hosted by Department of Infection and Immunity of Luxembourg Institute of Health is searching for excellent PhD candidates in immunology and postdoc candidates in computational biology or bioinformatics. The Immune Systems Biology Group (<https://www.lih.lu/page/departments/dii-all-c-allergology-immunology-inflammation-research-unit-1379>) or the detailed group webpage (<https://sites.google.com/site/heresearchgroup/home>), a junior research group, established from March 2015, focuses on unravelling how the dynamic molecular networks of immunocytes quantitatively, rather than simply all-or-none, respond to various genetic variance or mutations as well as environmental factors including stresses under physiological or pathological conditions. To this end, the group develops and applies integrated computational and experimental systems biology strategies to predict and delineate the dynamic molecular networks of immunocytes.

The group in cooperation with Luxembourg Centre for Systems Biomedicine has recently received a Luxembourg-RIKEN (Japan) bilateral fund to investigate regulatory T cell responses in the context of barrier diseases. The received funding will support both experimental and computational PhDs or Postdocs to be hosted by several groups within the areas of immunology, single cell analysis and computational biology. The successful candidate could also enjoy 20% of his or her time in our partner labs at the RIKEN institute with all the travelling/accommodation cost covered by the funding program.

Profile of the Postdoc candidates:

- The ideal candidates need to have a PhD in computational biology or bioinformatics with a strong statistical background.
- The candidates need to have provable track records in computational biology such as large-scale data analysis (RNA-seq and/or microarray analysis), machine learning, network inference and analysis, and others with at least one first-author paper in related journals.
- The candidates need to be skilled at least in R and Matlab.
- The candidates shall have very good writing and communication skills in English
- The ideal candidates have been awarded a PhD for less than 5 years.

According to the requirement of the national funding agency (FNR), eligible candidates need to meet with one of the two criteria:

- ❖ the Postdoc candidate has principally (>12 months) worked **outside Luxembourg** in the 24 months preceding the application.
- ❖ the Postdoc candidate has principally (>12 months) worked **in the private sector in Luxembourg** in the 24 months preceding the application.

The successful candidates will benefit from the development of the junior group and the true interdisciplinary environment in addition to the competitive salaries. The candidates will also enjoy

interactions with the wet- and dry-lab members of the group, the department and other international partners.

Starting date: as soon as possible

If you are interested in these positions, please send your CV with the contacts of at least two references and personal statement to feng.he@lih.lu. The positions will remain open until they are filled with the suitable candidates.

With Regards

Feng

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