

PhD Scholarship in the Future Secure Cloud

Applications are invited for a fully funded PhD studentship (home or overseas) in the area of secure cloud systems, under the supervision of Dr. Lluís Vilanova [1], a faculty member of the world-leading “Large Scale and Distributed Systems” (LSDS) group [2] and co-director of the “Cloud, Data and Exascale Computing Hub” at Imperial-X [3].

[1] <https://www.imperial.ac.uk/people/vilanova>

[2] <https://lsds.doc.ic.ac.uk>

[3] <https://ix.imperial.ac.uk/research-area/cloud-and-big-data-computing>

The goal of this project is to define and build a prototype of the future cloud, where applications can coexist and collaborate efficiently, while non-expert users can define how application can use their information.

To apply for this position, you will need to have a strong background in at least one of the following areas, and a strong interest to learn about at least another one of them:

- Operating systems
- Distributed systems
- Computer architecture
- Computer security

Skills in any of the following areas will also be considered in addition to those described above:

- Formal methods
- Information flow control
- Programmable accelerators
- Computer architecture development and simulation

The Department of Computing is a leading department of Computer Science in the UK and the world and has consistently been awarded the highest research rating. In the 2021 REF assessment, the Department claimed the top spot for computer science and informatics. Overall, Imperial College London ranked first in the UK for research outputs, first in the UK for research environment, and first for research impact among Russell Group universities.

Applicants are expected to have a First Class or Distinction Masters level degree, or equivalent, in a relevant scientific or technical discipline, such as computer science or mathematics. Applicants must be fluent in spoken and written English.

The position is fully funded, covering tuition fees, travel funds and a stipend/bursary. The position is available to home and overseas students.

How to apply

To apply for this position, please follow the application guidelines at: <http://www.imperial.ac.uk/computing/prospective-students/courses/phd/phd-application-guidelines/>

In the application form, please write “**Future Secure Cloud**” in the “Proposed Research Topic” field, and “**Lluís Vilanova**” in the “Proposed Research Supervisor” field.

Early applications are encouraged. Informal inquiries about this position are also encouraged and can be directed to Lluís Vilanova <vilanova@imperial.ac.uk>. This position will be based at the South Kensington campus in central London. Applicants are advised to visit <http://www.doc.ic.ac.uk/~lvilanov/opportunities/phd/> for information in applying for a PhD position with Dr. Lluís Vilanova, as well as for links to more general information on becoming a PhD student in the Department of Computing.

We are committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion, a Two Ticks Employer, and are working in partnership with GIRES to promote respect for trans people. We encourage applicants from underrepresented backgrounds to apply.