

# PhD studentships in the Department of Computer Science and Information Systems

Applications are invited for full-time PhD studentships in the Department of Computer Science and Information Systems starting in the academic year 2017/18.

Two studentships are available:

- One fully funded studentship covering fees at Home/EU rate, plus an annual stipend of £16,553
- One studentship covering fees only at Home/EU rate

Applications for part-time study may be considered, at an appropriate pro-rata rate and extended duration.

**Closing date for applications: 15 September 2017**

The studentships are open to full-time home, EU and international students. Candidates must submit both a college application form for a place in the MPhil/PhD programme and the application for a studentship. Candidates will be considered for admission first, and for the award only after they have been offered a place in the programme.

## Who is eligible?

Applicants should have a minimum of a 2.1 degree in computing, or in a branch of science or engineering with strong numerical ability and programming skills.

The Department of Computer Science and Information Systems at Birkbeck is a world-class centre of expertise in knowledge representation and data management, algorithms, verification and software, machine learning and data science. The Department also has major interdisciplinary activities in life sciences informatics, data analytics, and technology-enhanced learning.

For information about the Department research activities, please visit

<http://www.dcs.bbk.ac.uk/research/research-groups/>

Candidates should submit a research proposal in one of the following areas, which will be judged by a panel, and attend an interview either in person or online.

- 1) **Algorithms, Verification and Software:** this includes theoretical approaches to cope with computational intractability, machine learning and bio-inspired computational methods, deep networks, software engineering, as well as applications to real-world tasks, such as software verification and scheduling, computer vision, cognitive modelling, adaptive systems, psycho-physiological modelling, adaptation and evolution in complex environments.
- 2) **Experimental Data Science:** the use of real-world data and observations captured from full-scale information systems to ground testable theory and conduct experimentation.

Particular areas of investigation include Web, social, human dynamics, applied machine learning for big data, visual and geometric computing, management, integration, and mining of life sciences data, mobile computing and the Internet of Things, applications in the digital economy, healthcare technologies and technology-enhanced learning.

- 3) **Knowledge Representation and Data Management:** This includes research on modern ways of storing, managing, and retrieving information from various data sources, in particular, using logic-based knowledge representation technologies such as those developed for the Semantic Web. Particular areas of investigation include data integration, data management, knowledge representation and reasoning, logic, ontology-based data access, query languages and query optimisation, semantic web technologies.

Application; detailed CV, including details of programming experience; transcripts of previous studies, which should include all the modules or subjects studied in each year and marks or grades achieved for each module/subject; research proposal and research statement should be submitted online through the webpage:

<http://www.dcs.bbk.ac.uk/research/pursuing-a-research-degree/applications-for-a-research-degree/>

#### How to apply

Candidates must submit both a college application form for a place in the MPhil/PhD programme (please see **How to apply for an MPhil/PhD** – <http://www.dcs.bbk.ac.uk/research/pursuing-a-research-degree/applications-for-a-research-degree/> ) and a [studentship application form](#)

Candidates will be considered for admission first, and for the award after they have been offered a place onto the programme.

If you are thinking of applying, please visit first our Frequently Asked Questions (FAQ) webpage <http://www.dcs.bbk.ac.uk/research/pursuing-a-research-degree/faq/>

and the PhD programme webpage

<http://www.dcs.bbk.ac.uk/research/pursuing-a-research-degree/the-phd-programme/>

For queries regarding the studentships available within the Department of Computer Science and Information Systems, please email: [phd@dc.s.bbk.ac.uk](mailto:phd@dc.s.bbk.ac.uk)