

## College of Engineering, Design and Physical Sciences: EPSRC Funded DTP PhD Studentships

Brunel University London (BUL) is recruiting to EPSRC Doctoral Training Partnership (DTP) PhD studentships effective 1 October 2020. Applications are invited for the following specific project entitled “Design of Experiments for Network Science”. Successful applicants will receive an annual stipend (bursary) of £17,285 plus payment of their full-time **home, EU or international** tuition fees for a period of 36 or 48 months (3 or 4 years).

The successful applicants will join the internationally recognised researchers in the Department of Mathematics. This exciting research project is focused on extending statistical theory, algorithms and tools to allow experimental design on a connected world. Design of Experiments (DOE) is a statistical field that allows scientists to maximise information derived from experiments, making stronger conclusions and/or reducing the cost of doing science. This project applies DOE to Network Science, and answers fundamental questions about how we measure and make conclusions when links between experiments are complex. It extends precious work by the supervisor, e.g. <http://bura.brunel.ac.uk/handle/2438/19995>

Applicants will be required to demonstrate their ability to:

- understand new statistical theory and adapt it to particular experiments and applications;
- collaborate with statisticians and scientists and understand the challenges in different disciplines;
- learn to work with statistical software, such as R.

Please contact Ben Parker at [ben.parker@brunel.ac.uk](mailto:ben.parker@brunel.ac.uk) for an informal discussion about the studentships.

### **Eligibility**

Applicants will have or be expected to receive a first or upper-second class honours degree in an Engineering, Computer Science, Design, Mathematics, Physics or a similar discipline. A Postgraduate Masters degree is not required but may be an advantage.

Experience in experimental design, or at least the theory of statistical inference, network modelling, algorithms (operational research) and programming, particularly in the R statistical programming language is an advantage. In addition, he/she should be highly motivated, able to work in a team, collaborate with others and have good communication skills.

### **How to Apply**

Please submit your application documents (see list below) by **Noon on Friday 26 June 2020** to [cedps-pgr-office@brunel.ac.uk](mailto:cedps-pgr-office@brunel.ac.uk) Interviews will take place in July 2020.

- Your up-to-date CV;
- Your personal statement (300 to 500 words) summarising your background, skills and experience;
- Your Undergraduate/Postgraduate Masters degree certificate(s) and transcript(s);
- Evidence of your English language skills to IELTS 6.5 (or equivalent, 6.0 in all sections), if appropriate;
- Contact details for TWO referees, one of which can be an academic member of staff in the College.

***Remember to state the title of the project at the top of your personal statement.***