

Communications and Networks (Ref CSEE/APR18/03)

The School of Computer Science and Electronic Engineering at the University of Essex is pleased to announce two PhD studentship available in “Communications and Networks”.

These studentships will start from 23 April 2018 and once awarded, you'll receive the scholarship for three years of your PhD (subject to satisfactory progression).

The studentship includes:

- a fee waiver equal to the Home/EU fee (for 2017/18, £4,120). International students will need to pay the balance of their fees.
- a stipend equivalent to the Research Councils UK National Minimum Doctoral Stipend (£14,553 in 2017-18)

PhD applications that address any challenges of 5G and beyond systems or future networks will be encouraged. Specific list of topics are, but not limited, to include:

- IoT communications
- Network/Cyber- security
- Wireless power transmission/Energy harvesting
- VR/AR communication
- Network coding
- Machine assisted rate allocation
- Fog/Cloud computing
- ICN/NDN/SDN
- Microwave and mm-wave circuits, systems and antennas for future mobile and satellite communications
- Numerical modelling in electromagnetic communications and radars
- Novel tunable material characterization with applications in multi-frequency communication systems
- Optical transmission/Visible light communications

The PhD students are expected to carry out high calibre research and publish in high impact IEEE/ACM journals and conferences.

Additional questions and queries about the studentships should be submitted to the potential supervisor who must be a member of the Communications and Networks research group: <https://www1.essex.ac.uk/csee/research/areas.aspx>.

Entry requirements

At a minimum, the successful applicant will have a good honour BSc or BEng degree (1st class or high 2:1, or equivalent) in electronic engineering, computer engineering, computer science, statistics, mathematics, or related subjects. An MSc with Merit or Distinction is desirable (but not essential for students with a first class degree). Strong analytical and mathematical skills are required, as well as good programming skills. The successful

applicant will be will be part of the communications and networks research group in the CSEE (<https://www1.essex.ac.uk/csee/research/areas.aspx>).

How to Apply

- To be considered for this Scholarship applicants are required to apply for their PHD course in the usual way via the University of Essex online admissions application process here: [website](#), (including uploading all supporting documents required) by the deadline of **Friday 23 February 2018**,.
- Please note on your PG Admissions application form in the 'Proposed research topic or area of research' field that you wish to apply for this scholarship, Ref CSEE/APR18/03.
- In addition to your main online PHD application, you are also required to submit a separate application form, which can be accessed [here](#) and submit separately to: csee-schooloffice@essex.ac.uk by the deadline of **Friday 23 February 2018**, quoting Ref CSEE/APR18/03.
- Applicants will be informed of the outcome of their application for their PHD course and the scholarship award by the end of March 2018.

For further information on our current areas of research please refer to our [research interests](#) and [staff profiles](#).

If you have a disability and would like information in a different format telephone (01206) 873521/874588.