Postgraduate Scholarship in Next Generation Mobile Communication Systems (5G)

Two full-time postgraduate scholarships are available for suitably qualified candidates with a good honours degree or equivalent in science or engineering to undertake research studies leading to PhD in telecommunication networks.

The successful candidates will be hosted in the Centre for Real-time Information Networks, University of Technology Sydney and conduct research in the field of next generation mobile communication systems (5G).

The following topic areas in the next generation mobile communication systems will be investigated (but not limited to):

* Modelling and performance analysis of dense and small-cell networks
* Network architecture design
* Spectrum and interference management
* Cooperative communication strategy
* Energy efficient communication techniques
* Information centric networks

**ELIGIBILITY:** Applicants should have solid mathematical, telecommunications or electrical engineering background, and a particular interest in applying sophisticated mathematical skills to study large-scale mobile communication systems. The scholarship is only for PhD candidates. Successful applicants should meet the admission requirements for PhD and are expected to start their enrolment at the University of Technology Sydney in Semester 2, 2014 or Semester 1, 2015. Preference may be given to candidates who can start early. Successful applicants are expected to submit an application for APA/UTSD/IPRS scholarships.

**AMOUNT AWARDED:** The scholarship is valued at $25,392 per annum (tax exempt) and may be renewed for up to three and a half years, subject to satisfactory progress. Successful applicants from overseas may also be awarded a tuition fee waiver scholarship.

**APPLICATION GUIDE:** Further information can be obtained from Professor Guoqiang Mao, Director of Centre for Real-time Information Networks, University of Technology Sydney (E-mail: guoqiang.mao@uts.edu.au). Applications should be sent directly to Prof Mao at the above address and should include a curriculum vitae, a copy of an academic transcript, a research proposal in the above mentioned areas, and the names and contact details of at least two referees. For overseas students, English test results, e.g. IELTS or TOFEL, should be included.

**CLOSING DATE:** 31 MAY 2014