PhD/Master Openings in Applied Electromagnetics and Wireless Communications

**Position description**: Applications are invited for fully funded 4-year PhD positions as well as 2-year Master positions. The start date will be in January, May, or September.

**Research project**: The positions generally involve theoretical and applied research in electromagnetics and wireless communications. The research projects cover a broad range of topics, with a particular focus on the development of high-performance computational platforms for emerging wireless technologies, 5G and beyond wireless communications, as well as biomedical sensing and healthcare applications. The successful candidates are expected to conduct research, particularly, but not exclusively in the following projects:

(1) Computational electromagnetics & numerical modeling.

(2) Multiphysics and multiscale modeling for electromagnetic, micro-/nano-electronic, and biomedical applications.

(3) Application of machine learning or stochastic uncertainty quantification techniques in electromagnetics and wireless communications.

(4) Metasurface assisted wireless communications, reconfigurable intelligent surface, EMC/EMI, RF/microwave/millimeter-wave and antenna design & measurement.

Specific research topic for the position will depend on the candidate’s background. The candidate will have a chance to work with industry partners and international collaborators.

**Expected qualifications**: The successful candidate should hold a Bachelor or Master’s degree in electrical/electronic engineering, communication engineering, computational science, applied mathematics/physics or a related discipline, and should have a solid background in mathematics, electromagnetic and communication theory, as well as programming. Previous related research experience will be a plus.

**How to apply**: Interested candidates should send an email to Dr. Xinyue Zhang (xinyue.zhang@ucd.ie) along with your CV, academic transcripts, English qualifications, as well as any other documents that you believe can well demonstrate your research capability and potential.