**PhD Project Proposal**

School of Electronics, Electrical Engineering and Computer Science

& ECIT Global Research Institute

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| **Proposed Project Title: Broadcast and Multicast transmission using Circular Array** |
| **Principal Supervisor: Prof Vincent Fusco Second Supervisor: Dr Neil Buchanan**  |
| **Project Description:** In modern wireless communications it is necessary to be able to communicate to multiple users on demand. This project is part of an exciting initiative that will assist in enabling, initially, the Greater Belfast Area (as part of the £350M Belfast City Deal), then roll out to other major cities. In particular the project will involve the theory, design and characterisation of an exciting new concept in antenna arrays that use circular array methods. It is likely that the project will be conducted in collaboration with a major wireless communication provider. |
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