EPSRC Industrial CASE Studentship in collaboration with SELEX Sensors and Airborne Systems Ltd

Electronically reconfigurable microwave filters
School of Engineering and Physics Sciences
Heriot Watt University

Applications are invited for a research studentship at Heriot Watt University, leading to the award of a PhD degree. We are able to offer an opportunity to work in a challenging field that will combine industrial application with substantial research challenge. The aim of the PhD project is to develop advanced reconfigurable microwave filters, which are essential for future wireless systems, since microwave filtering technologies are key to controlling the spectrum of RF signals and tackling interference issues and is a technology area that has commonalities and application across commercial, civil and defence systems. In this project, a study will be carried out to evaluate electronic switching/tuning methods. The project will investigate some key design issues of a reconfigurable filter. Circuit modelling and full-wave electromagnetic simulations will be performed for the investigation. Experimental work will be carried out to demonstrate advanced reconfigurable microwave devices. The project will be conducted within the RF/Microwave Engineering Group in the Department of Electrical, Electronic and Computer engineering, see:
http://www.eece.hw.ac.uk/research/microwaves/overview_files/slide0001.htm

Eligibility:
Candidates should hold, or expect to receive, a first or upper second degree in a relevant engineering or science subject. Knowledge of microwave applications would be an advantage.

Funding includes a tax free stipend (> £16,000 per annum) for maintenance, plus payment of UK/EU fees for 3.5 years. The studentship is subject to the EPSRC rules for eligibility, see:
http://www.epsrc.ac.uk/PostgraduateTraining/StudentEligibility.htm.

Additional Information:
For informal enquiries contact Dr J Hong (J.Hong@hw.ac.uk).

To apply please email your CV to J.Hong@hw.ac.uk

Closing Date: Open Until Filled