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# PhD Studentship:

# Millimeter-Wave Antennas and Arrays

## Microwaves and Antenna Engineering Group

https://microwaves.site.hw.ac.uk

# PhD Studentship

In Microwaves and Antenna Engineering Group

at Heriot-Watt University, Edinburgh EH14 4AS, Scotland, UK

# Millimeter-Wave Antennas and Arrays

## Introduction

Following the development of 3G, 4G and 5G technologies, both academia and industry are starting research activities further to shape the next-generation communication systems (6G). New services will emerge due to advances in communications as well as sensing, imaging, displaying, and artificial intelligence. Apart from the traditional terrestrial network, non-terrestrial components in mobile communications will be included. Communication with satellites and high-altitude platform stations (HAPS) will be required too. The proposed PhD research is to develop high performance millimeter-wave antennas and arrays for emerging wireless and satellite communication systems and radars. Different scenarios including metasurfaces, leaky waves, lenses and characteristic modes will be investigated to deploy beam-steering or multibeam antennas with high directivity, efficiency, and integration.

**Duration**: 36 months.

**Scholarship**: £15,609 annual stipend plus tuition fees waived.

**Deadline**: as soon as possible.

## Candidate

MSc degree or equivalent in electrical engineering with a focus on RF/microwave engineering, electromagnetics and antenna theory.

Further information on English language requirements for EU/Overseas applicants.

## Supervisor Team

To apply please send your motivation letter, CV, and recommendation letters (optional) to:


Dr. Lei Wang
Heriot-Watt University
Email: lei.wang@hw.ac.uk

Prof. George Goussetis
Heriot-Watt University
Email: g.goussetis@hw.ac.uk


## Funding Notes

All students including UK, EU and overseas are eligible to apply for this position covering tuition fees and stipend.