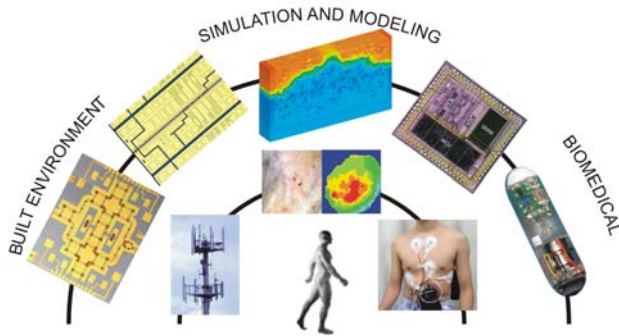


# Electronics Design Centre for Heterogeneous Systems



The Department of Electronics and Electrical Engineering at the University of Glasgow has established an Electronics Design Centre (EDC). The Centre has secured start-up funding for the next five years from EPSRC and the Scottish Funding Council for Higher and Further Education worth a total of £5M. The funds are to recruit new academics, build a high quality laboratory and acquire new equipment.

## Staff

Key appointments are:

- Dr Tim Drysdale (Electromagnetic Design)
- Dr Kaled Elgaid (High Speed Circuits)
- Dr Paul Hammond (Integrated Nanosystems)
- Mr Mark Milgrew (Research Fellow)

Senior management:

- Prof. David Cumming (Microsystems)
- Prof. Iain Thayne (Ultrafast Technology)
- Prof. Asen Asenov (Device Modelling)
- Prof. John Arnold (Computational Electromagnetics)

## PhD Studentships Available in:

- Integrated Microsystems
- NanoCMOS: Theory and Design
- mmWave Integrated Circuit Design
- High Resolution mmWave Imaging
- VLSI Sensor Technology
- CMOS MEMS
- Computational Electromagnetics
- RF System Design
- Biomedical Devices
- Circuit Theory

## Research

The focus of the EDC is to work on heterogeneous systems. The definition of our remit is distinctive in that we share interests with the James Watt Nanofabrication Centre and the long history of research in nanotechnology in the Department. Our goals are to bring an electronics design and systems perspective to our technology capability to, for example, build microchips with electronics, nanosensors or biological material integrated in to them. We also have a strong emphasis on studying the impact of nanotechnology and future circuit complexity on the design process and CAD tool environment. Finally, we will take advantage of our pre-eminent position in III-V ultrafast technologies to explore new generations of telecoms, imaging, biomedical and security products.

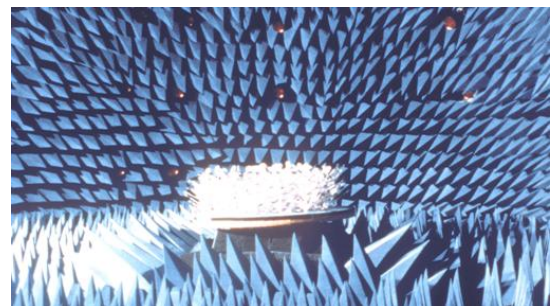
In the near term the research will be supported by three Post-Doctoral Research Assistants and 6 PhD students, but already we have secured promises of student CASE awards with industry and are actively engaged in developing research projects.

## Teaching

As part of the Centre's mission we will develop new undergraduate and graduate courses to stimulate interest and growth in the design of complex electronic systems. A key objective is to expand our current MSc provision to enable us to offer a specialised course in electronics.

## Facilities

We will refurbish and equip approximately 300 m<sup>2</sup> of laboratory space that will be dedicated to the Centre. In addition to a large open plan design office to accommodate up to 20 design seats we will have new laboratories equipped with a state-of-the-art on-wafer prober station, an anechoic RF test chamber, extensive test and measurement capabilities and experimental bench space.



## Contact

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