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# Human interface technologies

## Background and mission

The Human Interface Technologies Team within Electronic, Electrical & Computer Engineering was formed in 2003 and brings together award-winning, multidisciplinary researchers within the School who focus on theoretical and practical human-centred research issues related to future interactive technologies, including task and usability analyses, human factors integration, ergonomics and the design, application and evaluation of advanced interfaces.

## Academic staff

- **Professor Robert John Stone (/staff/profiles/eece/stone-bob.aspx)** - HIT Team Director
- **Professor Chris Baber (/staff/profiles/eece/baber-chris.aspx)**
- **Dr Sandra Woolley (/staff/profiles/eece/woolley-sandra.aspx)**

## Research areas

- **Wearable computing (/research/activity/eece/human-computer/human-interface/wearable-comp.aspx)**

  Wearable Computing Platform Development, Display Design & Integration, Intelligent Garments, Augmented Reality, Human Factors Issues.

- **Defence human factors (/research/activity/eece/human-computer/human-interface/defence.aspx)**

  Command and Control, Situational Awareness, Synthetic Environments, Uninhabited Vehicles, Defence Medicine.

- **Medical simulation (/research/activity/eece/human-computer/human-interface/medical.aspx)**

  Virtual Environment Training, Surgical Task Analysis, Advanced Medical Imaging, Defence Medicine, Human Factors Issues.

- **Virtual & synthetic environments (/research/activity/eece/human-computer/human-interface/virtual.aspx)**

  VEs / SEs for Training and Design, Education, Cultural Heritage and Defence Applications; Games Engine Technologies and “Serious Gaming” Applications, Human Factors Issues.

- **Birmingham serious games team (/research/activity/eece/human-computer/human-interface/serious-games/about-us/serious-games.aspx)**

  Serious Games – a new genre of interactive 3D content development and rendering tools, many available at very low cost or even free of charge via the Web.

- **Ergonomics information analysis centre**

  Our award-winning Ergonomics Information Analysis Centre (EIAC) comprises a group of dedicated ergonomics professionals who, since 1968, has been providing the international Human Factors community with high-quality information services, courtesy of one of the largest ergonomics libraries in the world and through a long-standing relationship with the leading academic publisher Taylor & Francis.

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