



CORESCRIPT: Faculty of Engineering, Computing & Creative Industries

School of Engineering & the Built Environment

- Top Scottish Modern for General Engineering (The Guardian League Table 2013 and Times League Table 2012).
- 13th in the UK in 'General Engineering' (The Guardian League Table 2013).
- Top 50% in the UK for General Engineering (The Guardian League Table 2013).
- General Engineering at Edinburgh Napier scored an 86% student satisfaction rating in the 2012 National Student Survey. This was the third highest rating in the UK and top in Scotland.

Motorcycle pollution:

A motorcycle testing lab has been launched to tackle

damaging greenhouse gas emissions. The unique, purpose-built facility allows scientists to test motorcycles' performance and emissions under a variety of engine, speed and weather conditions. The researchers aim to work with leading companies in the manufacturing industry to shape the future of bike and fuel production.

School of Arts & Creative Industries

- Top Scottish Modern for Music (The Guardian League Table 2013 and Times League Table 2012).
- Top 25% in the UK for Media Studies (The Guardian League Table 2013).
- Top 25% in the UK for Communications (The Guardian League Table 2013).
- Seven students scooped prizes at the 2012 Roses Student Design Awards, winning half of the categories on offer.
- Notable graduates are David Eustace, Catriona Shearer and, more recently, Jordan Scott (a 2011 graduate) secured his dream job as a Product Designer at Lego.
- Five students and graduates from Screen Academy Scotland were among the awards at the 2012 BAFTA Scotland new Talent Awards.
- Product Design Graduate, Andy Murray, won a Young Innovator of the Year Award in 2011 at the John Logie Baird Awards in Glasgow.
- A band formed at Edinburgh Napier *Conquering Animal Sound* made the shortlist for the Scottish Album of the Year 2012.

- Two Graphic Design students won large prizes from the Cosmetics giant Clarins whilst on an exchange at ESAG Penninghen in Paris, one of the top art schools in Europe.
- Graphic Design student Melissa Preston won a yellow pencil in the **International D&AD awards**. As a result of this, she gained a place at the **D&AD Graduate Academy**.

School of Computing

- With over 50 academics and 1,000 students it is one of the UK's largest computing departments.
- Opened Edinburgh's first computer games training lab in 2009.
- Notable graduates are Brian Baglow, who helped to create the Grand Theft Auto computer game which has been a world wide phenomenon and John Howie, cyber security expert.
- We jointly run e-Placement Scotland which helps students at Scottish Universities and Colleges find paid and flexible IT work placements. Placements can be full or part-time and last from three months to a year.
- We have a strong Entrepreneurial culture including spin-outs such as Inquisitive Systems (see 'Digital finger printing' section below for more information), one of our students winning BT Young Entrepreneur of the Year and a new business incubation unit that has been set up to encourage students to develop their ideas or work with businesses.

Experts in cybercrime - New MSc in Advanced Security & Cybercrime

Edinburgh Napier University has launched a new part-time **MSc in Advanced Security & Cybercrime** - the latest in a growing number of courses set up to combat rising levels of online crime.

Aimed at professionals already working in computer security, the course will arm students with the skills to combat a wide range of threats including phishing scams, online financial and identity theft as well as virus and network intrusions.

The UK government ranks cyber security as a "tier one national security priority" while the Scottish government recently appointed a 'cyber minister' - Fergus Ewing - recognising the scale and importance of the e-crime problem in Scotland.

Digital finger printing in fight against cybercrime

Revolutionary new digital fingerprinting software invented by Edinburgh Napier computer scientists will stem the growing tide of cybercrime. The technology, which has been spun-out of Edinburgh Napier University, allows CCTV-style monitoring of online systems.

The biologically inspired software digitally mimics the DNA matching process used in the real world. It means cybercriminals can be tracked down in seconds - potentially saving companies worldwide millions of pounds every year.

A new spin-out company called Inquisitive Systems has now been launched to commercialise the Edinburgh Napier researchers' GuardInQ software.

New e-health platform

Cyber security experts from Edinburgh Napier University are working with researchers at London's Chelsea and Westminster Hospital to trial a new e-health platform. The pilot project will use cloud computing - accessing files from the internet - to speed up access to patients' medical records.

Simulated patient records will be used in the pilot, which seeks to speed up communication between patients, consultants and general practitioners by replacing the current paper-based system.

Engaging apps for tourist destinations

We are building tourist mobile applications to be available on smart phones and tablets. They will be different to previous ones which lack interactivity and surprise and create the feeling of reading a simple textbook about the sights around the user. We are partnering with *Historic Scotland* who have to deal with the twin problems of providing engaging experiences for tourists at content-intensive sites such as Edinburgh Castle and at unstaffed remote rural locations. Our other partner is *Veemee*, an SME based in Edinburgh that produces augmented reality content and delivery platforms, based around their Zappar browser.

We have prototyped a solution to this at the St Andrews University summer school on digital tourism that was held during June 2011, hosted by Prof Aaron Quigley. Serkan Ayan, a PhD student in CiD, developed an Android app that provided audio augmentation of the city using GPS.

This alerted people to the existence of digital content at an approximate geographical location by vibrating the phone. A single tap on the phone brought up the audio that got louder as the tourist approached the exact location of the content. As soon as the tourist was in the correct location the actual content - historical sounds relevant to the location - was delivered.

Greensight - a system which can assess how environmentally friendly an organisation's computers are.

Edinburgh Napier student Clément Mouchet has created *Greensight* - a system which can assess how environmentally friendly an organisation's computers are.

Computer carbon footprinting is a relatively new market but Clément's already pioneering project has won the praise of industry professionals after landing the first *METERology award for innovation in Green ICT*, a new prize sponsored by METERology.

Clément finishes university this summer and has already been accepted onto a graduate scheme with Edinburgh based IT-consultancy Sopra Group.

Other corescripts:

There are a range of other corescripts available.

A pocket-sized facts and figures guide is also available. Contact news@napier.ac.uk for a hard copy or to download please visit: <http://staff.napier.ac.uk/corescripts>

