Scope: Animation, Simulation & Visualisation (ASV)

Technical research, development and applications in Computer Animation, VFX, Games Technology and Film

Visualisation, simulation and modelling of learning content across all core Fusion Themes [*crossover with AT*]

Personalisation of health and medical services *[crossover with MS; AT]*

Animation, visualisation and simulation of design for assistive technology *[crossover with AT]*

Conservation, heritage, ecology and ecosystems modelling integrating Geographic Information Systems and remote sensing modelling and applications [*crossover with SLCTMS; MS*]

Data analytics, visualisation, augmented reality and modelling of medical technology and applications [*crossover with MS*]

Scope: Sustainability, Low-carbon Technology & Materials Science (SLCTMS)

Environmental, social, economic and cultural sustainability including historic environment

Conservation, ecology and ecosystems modelling [*crossover with ASV*]

Sustainability policy including legal, computing and data privacy, environmental, conservation, materials development and use (including circular economy), science and energy policy

Computing, Geographic Information Systems and remote sensing modelling and applications *[crossover with ASV; AT]*

Materials science and applications [*crossover with AT; MS; ASV*]

Energy science, low-carbon technology and energy network development [*crossover with AT*]

Scope: Assistive Technology (AT)

Personalisation/ accessibility/ inclusivity of pedagogy, learning content and learning support/ coaching *[crossover with ASV]*

Digitalisation and personalisation of secure connected health and medical services [*crossover with ASV; MS*]

Design, sensory (cognitive modelling) and remote-sensing developments with visualisation, simulation and application for assistive technology *[crossover with ASV]*

Data analytics and adaptive AI for autonomous interactive and assistive technology

Robotics, non-technology, control systems and cybernetics [*crossover with MS*]

Materials science and additive manufacturing applications for assistive technology [*crossover with SLCTMS; MS*]

Scope: Medical Science (MS)

Physician Associate (PG), Genetic Counselling (PG) and Anatomy, Pathology, Physiology, and Epidemiology through Medical Science (UG)/Medical programmes

Digitalisation and personalisation of health and medical products, services and systems; and their impact on patient resilience/autonomy and on public health [*crossover with ASV; AT*]

Life Sciences: forensic and pharmaceutical science, biomedical science and gene-editing

Data science, AI, medical visualisation/imaging and simulation [*crossover with ASV*]

Musculo-skeletal science, bioengineering, (nano-)robotics, cybernetics and prosthetics [*crossover with AT*]

Institute of Medical Imaging & Visualisation in medical digital imaging and simulation, including for prosthetics and cybernetics (leading to larger medical infrastructure development)