Preparing graduates for the Interactive Revolution

The Interactive Revolution

Digital technology continues to develop at an ever-increasing rate, bringing opportunities for both industry and consumers.

Recent advancements in real-time computer graphics have enabled a wide range of new applications such as a new generation of affordable Virtual Reality systems, new ways to create film and TV with Virtual Production and highly interactive webpages that include 3-dimensional content.

The *Interactive Revolution* continues to gain momentum, changing the way we interact with technology, ultimately taking us to a *Metaverse* where digital and physical worlds coexist.

Core Technologies

A group of core real-time digital interaction technologies for video games and simulation, Virtual and Mixed Reality, Artificial Intelligence, and data processing will be essential to facilitate the Metaverse.

The Interactive Pathway

Most real-time interactive content is created using game engine tools such as *Unity*. Initially deployed exclusively for video game creation, they are now used in a wide variety of interactive applications including architecture visualization, healthcare training and simulation, movie production, interactive websites, and smartphone applications.

These tools will continue to grow in capability and popularity, facilitating the creation of our future digital world.

Real-time computer graphics and interaction skills will become increasingly important in preparing the next generation of digital pioneers for this new world.

About HOST

Salford's Home of Skills & Technology (HOST), operated by IN4.0 Group is an innovation hub established to break the barriers to entry into the digital technology sector, enabling businesses of all sizes to innovate and scale up.

HOST is driving economic growth by creating an inclusive technology innovation community at the heart of MediaCityUK together with a partner network to support digital innovation and skills development nationally.

About Unity

Unity is a cross-platform engine developed by Unity Technologies, first released in June 2005 – now supporting a wide variety of desktop, mobile, console and virtual reality platforms.
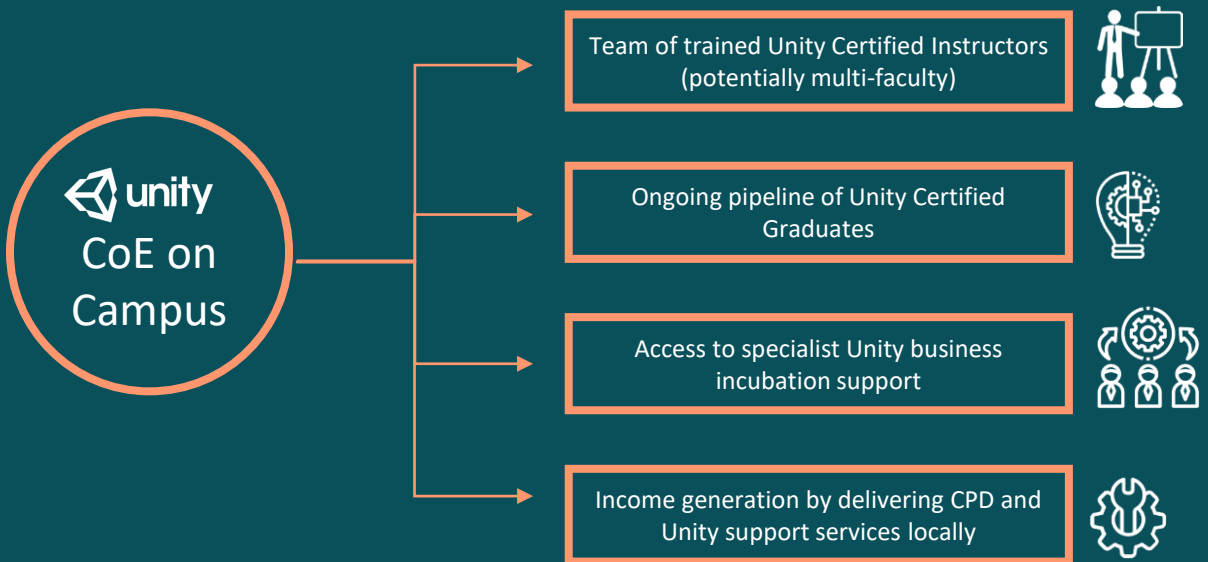
The engine can be used to create three-dimensional (3D) and two-dimensional (2D) games, as well as interactive simulations and other experiences. It is also being adopted increasingly by industries outside video gaming, including film, automotive, architecture, engineering and construction.

The national ◈ unity Centre of Excellence at HOST

In preparation for the immersive revolution, HOST has partnered with Unity – the worlds largest game engine provider, to create the UK's national **Unity Centre of Excellence** (CoE).

The national CoE will generate highly skilled engineers and designers that can maximize the potential of the Unity toolset, boosting the success of businesses that use Unity in their content creation pipelines, accelerating business growth and innovating to create new opportunities as the technology continues to evolve rapidly.
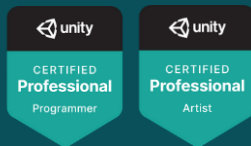
Opportunities for Universities

◈ unity CoE on Campus

- Team of trained Unity Certified Instructors (potentially multi-faculty)
- Ongoing pipeline of Unity Certified Graduates
- Access to specialist Unity business incubation support
- Income generation by delivering CPD and Unity support services locally

Unity Certified Instructors developing Unity Certified Graduates

Create a team of industry engaged Unity certified instructors at the University to operate as advanced industry-engaged practitioners.

Gain exclusive access to the up-to-date Unity learning syllabus to deliver cutting-edge industry-relevant skills.

Embed industry standard skills development into the undergraduate and/or postgraduate curriculum enabling students to gain:

- Unity Certified Professional: Programmer
- Unity Certified Professional: Artist

◈ unity CERTIFIED **Professional** Programmer

◈ unity CERTIFIED **Professional** Artist

Unity Business Engagement

Access to the Unity CoE employer partner network to enhance employer engagement in the curriculum.

Brokerage to fast-track Unity certified graduates into leading professional roles in the technology sector.

Incorporate industry challenges and projects curated by industry.

Unity Business Incubation

Dedicated incubation support and IP development for start-up businesses using the Unity platform.

Unity CPD delivery

Provide a regional focus for Unity-related CPD delivery in your region.