



UNIVERSITY
of York

E-Learning Content Creator - KTP Associate

Department: Electronic Engineering

Hours of work: Full Time, 37 hours per week

Contract type: Fixed term, 16 months (Remote or Office Based, in York)

Salary: KTP Associate: £27,929 - £34,308 per year, depending on experience (Plus £2,000 p/a personal training budget)



Grade: KTP Associate

Introduction

The University of York and [The Association of Electrical and Mechanical Trades \(the AEMT\)](#) are collaborating in a Knowledge Transfer Partnership (KTP), a national scheme supported by Innovate UK grant funding, which helps businesses to innovate in partnership with a university and a highly-qualified graduate, known as a KTP Associate. The KTP Associate in this partnership will work full-time for 16 months, and benefit from the knowledge, experience and facilities of both parties, as well as a personal development budget of £2k p/a. The KTP Associate will be responsible for project management of the KTP and the development of Learning Management Systems content design, Online Assessment Environments and 3D modelling and animation to redesign hazardous area equipment repair training.

The AEMT is a membership organisation for the electrical and mechanical trades and the only UK provider of hazardous area equipment repair courses recognised by the International Electrotechnical Commission. Since 1984, the AEMT has trained personnel from the major oil, chemical, gas and water treatment companies worldwide, who service and repair rotating plant machinery, such as electric motors, pumps and gearboxes. The courses delivered are of paramount importance to industry, as proper understanding of safe handling practices of hazardous area equipment can prevent devastating impacts to human lives, businesses, local ecosystems and economies.

The aim of the KTP is to convert a hands-on practical course into an online virtual learning system-based course which uses 3D design and animation for training and assessment. Assessments will be undertaken through the development of dynamic grading, based on various different types of 3D modelled machinery.

The successful applicant will be employed by the University of York and based at the AEMT office in York. They will work closely with AEMT key personnel as well as receiving support and guidance from respected academics from the School of Physics, Engineering and Technology at the University of York, who bring a wealth of experience in online education, visualisation, and assessment automation to the project. The KTP Associate will receive day-to-day line management from the AEMT's Lead Lecturer and Technical Consultant.

As noted, this position forms part of the Knowledge Transfer Partnership (KTP) scheme funded by Innovate UK. It is essential you understand how a KTP works with business and the University, and the vital role you will play if you successfully secure the KTP Associate position. Please visit the [university KTP website](#) for further information.

School

The School of Physics, Engineering and Technology at the University of York has an international reputation for excellence in research and teaching. In line with the school's long-term plans for knowledge exchange and engagement with industry, we seek to appoint a KTP Associate to join the Knowledge Transfer Partnership (KTP) project with The Association of Electrical and Mechanical Trades (the AEMT). As a school, we strive to provide a working environment which allows all staff and students to contribute fully, to flourish, and to excel. We are proud of our Athena SWAN Bronze Award.

The KTP Associate will lead a project to convert training materials (such as video, slides, sketches and interviews) into online course materials, complimented by 3D models and animation for training and assessment. You will be expected to improve modules through the AEMT's Learning Management System (LMS) to produce content that is challenging and pedagogically innovative. The successful applicant will be employed by the University of York and be based at the AEMT's head-office in York. You will work closely with key personnel at the AEMT as well as receiving support and guidance from academics from the Department of Electronic Engineering. The KTP Associate will work full-time for a fixed term of 16 months.

Main purpose of the role

The main purpose of the role is to build content for the training and assessment process of the AEMT course offerings and increase their global reach. The successful applicant will apply 3D modelling and LMS content design skills to develop, implement, support and maintain a commercially viable E-learning management system.

Key responsibilities

(Role holders will be required to undertake some or all of the duties below)

- Develop thorough understanding of offered modules at AEMT and review content for delivery.
- Working with AEMT's team to promote, plan and deliver online courses.
- Supporting AEMT's team with marketing objectives.
- Develop 3D models and animations to be used in the AEMT's LMS.
- Develop graphics, videos and images to be used in the AEMT's LMS - considering UX, SCORM (Shareable Content Object Reference Material), and on trend.
- Customer support and administration of LMS.
- Organise and deliver training sessions for new and existing users of the system
- Gather feedback and compile data on course attendance, participation, outcomes, useability.
- Report on feedback with suggested action to improve AEMT's LMS.
- Creating knowledge articles on how to learn through LMS.
- Present technical information within their area of expertise at meetings, conferences etc. and take part in discussions to inform the KTP's direction and delivery of outputs.
- To manage the KTP budget provided and accurately document usage of the grant.
- To actively demonstrate a commitment to professional development by continuing to advance knowledge, understanding and competencies.

Person specification

	Essential / Desirable
Qualifications	
BA in Graphic Design or Education, or BSc in Computer science and relevant disciplines.	Desirable
Knowledge	
Main theoretical and practical knowledge of cloud-based and educational platforms e.g. Brightspace, Moodle, Blackboard.	Essential
3D modelling and animation tools, eg. Blender, 3ds Max or Maya.	Essential
User Experience, Instructional Design, Usability Testing, Visual Design.	Essential
Copywriting skills, with the ability to convey complex problems in simple terms.	Desirable
Knowledge of HTML, CSS and JSON DTDL and similar formats	Desirable
Knowledge of pedagogical teaching methods.	Desirable
Skills, abilities and competencies	
Excellent IT, problem solving and analytical skills using a range of specialist software where required.	Essential
Excellent organisational skills with the ability to proactively prioritise in order to meet and respond to project deadlines.	Essential
Highly developed communication skills to engage effectively with a wide-ranging audience, both orally and in writing, and develop positive working relationships.	Essential
Proven ability to work under own initiative and as a team player.	Essential
Ability to present complex ideas in a clear and concise manner to individuals with varying levels of technical expertise.	Essential
Able to provide scientific data in written format for publications.	Desirable
Able to think creatively and develop innovative technical solutions to unusual problems involving multiple variables.	Desirable
Experience	
Experience of project management and leading projects to successful completion.	Desirable
3D modelling, video editing and animation	Essential

Experience of training others in relevant techniques and in the use of complex equipment.	Desirable
Personal attributes	
Good interpersonal skills and the ability to communicate effectively.	Essential
Flexible attitude towards work, willingness to respond to time led demands.	Essential
Actively demonstrates a commitment to professional development by continuing to advance knowledge, understanding and competencies.	Essential
A commitment to delivering high quality customer focussed service.	Essential
A positive, open and objective attitude toward others, to value and support colleagues. Able to respond and integrate change and to demonstrate personal resilience.	Essential
A high degree of attention to detail.	Essential