

JOB DESCRIPTION

Job Title: KTP Associate - Digital Manufacturing & Innovative Product Development

Grade: £35,116 per annum, fixed for the project duration

Department: Faculty of Engineering & Science, School of Engineering

Responsible to:

- Academic Supervisor, Associate Professor in Mechanical Product Design
- Industry Supervisor, Managing Director, Moorside Precision Ltd

Responsible for: N/A

Key Contacts:

- University of Greenwich: KTP Manager, Associate Professor in Mechanical Product Design
- Moorside Precision Ltd: Managing Director, Moorside Precision Ltd

Standard Occupational Classification (SoC Code): N/A

Non-Contractual Nature of Role Profile: This role profile is non-contractual and provided for guidance. It will be updated and amended from time to time in accordance with the changing needs of the University and the requirements of the job.

PURPOSE OF ROLE

The University of Greenwich has secured a Knowledge Transfer Partnership (KTP) grant from Innovate UK to deliver a transformative digital manufacturing project in collaboration with Moorside Precision Limited, a Dorset-based specialist in high-quality precision manufacturing. The project focuses on digital transformation and the integration of emerging technologies into Moorside Precision Limited's production value chain, through AI-driven product development, digital manufacturing, and sustainable innovation.

This partnership addresses a critical challenge facing many UK SMEs: transitioning from traditional, skills-based operations to a digitally enabled enterprise. The project will help Moorside Precision Limited move from traditional manufacturing operations toward becoming a regional leader in digital manufacturing — enabling diversification into overseas exports and high-growth sectors such as aerospace, defence and healthcare, and supporting long-term, sustainable competitiveness.

As the KTP Associate, you will be responsible for the day-to-day delivery of the project within Moorside Precision Limited, acting as the vital link between the company's shop floor and management, and the University of Greenwich's academic expertise. You will drive innovative design and product development, and the embedding of digital and AI-enabled systems across the company's design, planning, production, and quality functions — building lasting internal capability rather than a one-off solution.

You will manage the project largely independently, applying strong problem-solving, project management, team working and communication skills, while drawing on regular supervision and technical support from both your Academic and Company Supervisors. The work plan will be reviewed and adjusted throughout the project to respond to new challenges and industrial needs. Over the course of the project, you will develop into a genuine change agent within the business.

While employment is with the University of Greenwich, the role taker will be based and will work in the Moorside Precision Limited's office in Dorset.

ABOUT THE PARTNERSHIP

Moorside Precision Limited is a Dorset-based specialist in high-quality manufacturing, currently prioritising the upskilling of its workforce in emerging technologies to become a digitally enabled enterprise capable of competing in high-value, high-growth international markets.

The University of Greenwich underpins this project with world-class applied research and innovation, drawing on internationally established research and knowledge exchange in digital manufacturing, AI-driven product development, and sustainable innovation, and supporting UK industry to remain globally competitive while informing teaching and postgraduate research across the University.

KEY ACCOUNTABILITIES

Team Specific:

- Acting as the link between academic and industrial partners to support the transition from traditional manufacturing and skill-based operations to digital manufacturing and innovative product development.
- Implementing and managing advanced CAD/CAM/CNC and Computer-Aided Process Planning (CAPP) systems to support precision manufacturing and shop-floor operations.
- Utilising emerging technologies and design tools to support innovative product development.
- Deploying and refining Material Requirement Planning (MRP) and Manufacturing Resources Planning (MRP II) systems to streamline supply chains and quotation processes.
- Coordinating the KTP project lifecycle, managing milestones and reporting. Disseminating research and developments through publications and training activities.
- Working alongside stakeholders to navigate Intellectual Property Rights (IPR), ensure regulatory compliance, and support commercial product launches.
- Up-skilling existing industrial staff on emerging technologies and documenting procedures to transition the company into a digitally enabled culture.

Generic:

- Assist the School of Engineering in achieving the relevant KPIs.
- Contribute to research centre/school plans, activities, and efficient working practices.
- Participate, as appropriate, in public engagements, outreach and related activity.
- Contribute to achieving the University's mission of Education Without Boundaries and values (Inclusive, Collaborative, Impactful) through engagement with University initiatives.
- Promote your work and represent your discipline and the work of the University internally and externally and take a proactive approach to research integrity and ethical, good practice.

Managing Self:

- Actively participate in established professional development framework activities, including those provided by the University and Moorside Precision Ltd.
- Behave in a manner which reflects the University values and creates a positive environment for work and study.

Core Requirements:

- Adhere to the University's policies on Equality, Diversity and Inclusion and Information Security.
- Ensure compliance with Health & Safety, Data Protection and Equality Legislation.
- Adhere to the University's Sustainability policies, including the Carbon Management Plan, and carry out duties in a resource efficient way, reflecting the shared responsibility of minimising the University's negative environmental impacts wherever possible.

- Adhere to current legal requirements and best practice relating to digital content and accessibility, including Web Content Accessibility Guidelines when creating digital content.

Additional Requirements:

Undertake any other duties as requested by the line manager or appropriate senior manager, commensurate with the grade.

This is a professional, demanding role within a complex organisation with an ambitious strategic plan and agenda for change. The role holder will be expected to show flexibility in working arrangements, including working hours, to ensure that the research unit (School of Engineering) delivers the required level of service.

Freedom of speech and academic freedom:

In any matter falling under this job description, the university will have particular regard to, and place significant weight on, the importance of freedom of speech within the law, academic freedom and tolerance for controversial views in an educational context or environment. The University's commitments to freedom of speech and academic freedom are set out in the [Freedom of Speech Code of Practice](#). In the event of any conflict between this job description and the Freedom of Speech Code of Practice, the Freedom of Speech Code of Practice will take precedence.

KEY PERFORMANCE INDICATORS:

Achieve the KTP project milestones and outputs as defined in the KTP project workplan.

KEY RELATIONSHIPS (Internal & External):

- Internal (University of Greenwich): At the University, the prime relationships of the KTP Associate will be with the two academics who will supervise the project. The KTP Associate will also have relationships with senior leaders and members of their research unit, the School of Engineering.
- External (Moorside Precision Ltd): During the project, the KTP Associate will be based at the company and will have relationships with the members of the Moorside Precision Ltd management and engineering teams involved with the project, specifically (but not only) the industry supervisor, the KTP related project engineer, and Moorside Precision Ltd Managing Director. The Associate may also interact with customers as stakeholders in conversations regarding the Knowledge Transfer Partnership activities. The Associate will also have a relationship with the external Innovate UK KTP advisor, Stephen Woodhouse.

PERSON SPECIFICATION

EXPERIENCE:

Essential Criteria

- Practical experience in CAD/CAM/CNC/CAPP systems, particularly with common professional software and platforms such as SolidWorks, Siemens NX, Fusion 360, and Mastercam.

Desirable Criteria

- Practical experience with AI-based design tools and workflows such as VizcomAI, and familiarity with AI-driven decision-making approaches in a manufacturing or engineering context.

SKILLS:

Essential Criteria

- Essential knowledge of Material Requirements Planning and Manufacturing Resource Planning, as well as Project Management.
- A natural collaborator capable of presenting complex ideas to both academic boards and commercial stakeholders.
- Strong analytical abilities and proactive problem-solving.
- Effective written and verbal communication, and personal and social skills.
- Ability to work independently and collaboratively in both academic and commercial settings.

Desirable Criteria

- N/A

QUALIFICATIONS:

Essential Criteria

- A bachelor's degree (minimum) in Mechanical Engineering, Manufacturing Systems, Innovative Product Design and Development.

Desirable Criteria

- Postgraduate qualification (MSc or MEng) in Innovative Design and Manufacturing, or a closely related field.

PERSONAL ATTRIBUTES:

Essential Criteria

- We are looking for people who can help us deliver the [values](#) of the University of Greenwich: Inclusive, Collaborative and Impactful.

Desirable Criteria

- Genuine passion for research, innovation, and the application of academic insight to real-world industrial challenges, with the ability to confidently bridge the gap between academic theory and practical industrial application.
- Interest in the conservation of historic vessels or structures.