Job Description

Job title	KTP Associate
School/Service	Digital, Technologies and Arts
Normal Workbase	Stoke campus
Tenure	Fixed Term for 24 months
Grade/Salary	Grade 5
FTE	37 hours per week/ 1.0 FTE
Date prepared	April 2022

Job Purpose

This project aims to remove the current cost and complexity barriers that SME organisations typically face in accessing the benefits that AI-based analytics can deliver by developing cutting-edge data modelling concepts and new innovative ways to make them accessible and useful to non-specialist users.

The project requires the creation of new knowledge to enable the development of explainable AI solutions. The knowledge transfer required is largely the Explainable Artificial Intelligence (XAI) and machine learning techniques to enable Connexica to make powerful Machine Learning (ML) models accessible and interpretable.

This KTP associate will develop algorithms for a simple explanation of the decisions of black-box models to non-specialists. This will be a key aspect of the knowledge transfer.

Relationships

Reporting to:	Associate Professor DTA, Senior Lecturer DTA and Solutions Director, Connexia
Responsible for:	No line management responsibility

SFIAplus Core Level Definition Level 3: Apply

Autonomy
Works under general direction. Uses discretion in identifying and responding to complex issues and assignments. Usually receives specific instructions and has work reviewed at frequent milestones. Determines when issues should be escalated to a higher level.

Influence
Interacts with and influences colleagues. Has working level contact with customers, suppliers and partners. May supervise others or make decisions which impact the work assigned to individuals or phases of projects.

Complexity

Performs a range of work, sometimes complex and non routine, in a variety of environments. Applies methodical approach to issue definition and resolution.

Business Skills

Demonstrates an analytical and systematic approach to issue resolution. Takes the initiative in identifying and negotiating appropriate personal development opportunities. Demonstrates effective communication skills. Contributes fully to the work of teams. Plans, schedules and monitors own work (and that of others where applicable) competently within limited deadlines and according to relevant legislation, standards and procedures. Appreciates the wider business context, and how own role relates to other roles and to the business of the employer or client.

Main Activities

- Work as part of a collaborative team to tackle the challenges of designing and creating innovative, immersive Artificial Intelligence (AI) techniques

- Create Machine Learning (ML) platforms.

- Perform code reviews to ensure code quality.

- Actively participate in meetings with clients and SME's to develop ideas and design instructional methodologies that support client goals and learning objectives.

- Technical input in team meetings and contributing to design ideas.

- Contribute to the development of Explainable AI (XAI) solutions in python and java.

- Work with the management and sales team to scope projects.

- Research into new practices and methodologies used in AI, XAI and ML.

- Testing and debugging new and existing software.

- Installation and Setup of demonstrations as requested.

- The role holder is required to minimise environmental impact in the performance of their role and to actively contribute to the delivery of the University's Environmental Sustainability Policy

- To undertake other such responsibilities as may reasonably be required

Special Conditions

The role holder will be required to travel between sites from time to time in a cost-effective manner, which may be through the use of a car.

Professional Development

The organisation is keen to support staff in achieving high standards and will expect continuous professional development to ensure up to date knowledge and technical skills in related areas.

Variation to Job Description

The employer reserves the right to vary the duties and responsibilities of its employees within the general conditions of the Scheme of pay and conditions and employment related matters. Thus it must be appreciated that the duties and responsibilities outlined above may be altered as the changing needs of the service may require.

Conditions of Service

You will be employed by Staffordshire University Services Limited.

Staffordshire University Services Limited is a wholly owned subsidiary company of Staffordshire University which recruits and provides both academic and professional support staff to the University. You will be subject to Staffordshire University's policies and procedures and will be eligible to participate in the Staffordshire University Pension Scheme.

Informal Discussion

Should you wish to discuss this vacancy informally before making an application please contact:
Dr Mohamed Sedky, m.h.sedky@staffs.ac.uk

Application Procedure

We encourage you to apply on-line at our website http://jobs.staffs.ac.uk as the system is user friendly and simple to complete.

We would ask all applicants to ensure that they have provided comprehensive information under each criteria in the Supporting Statements section of the application form and, if necessary, add any relevant additional information in the Additional Information Section.