

## Academic Role Profile

### Addendum

This document provides additional information relating to both specific aspects of the post/Faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Job Purpose.

**Job Title:**

Lecturer/Senior Lecturer/Reader in Trustworthy AI

**Surrey Institute for People-Centred AI (PAI) appointment****Faculty School/Department(s) for collaboration:**

Centre for Vision, Speech and Signal Processing (FEPS), Department of Law (FASS), Department of Mathematics (FEPS), Department of Computer Science (FEPS)

**Job Summary/Purpose**

The appointee will be expected to lead research, collaboration and project grant applications in AI and AI-Domain collaboration aligned with the Surrey AI Institute research strategy in People-centred AI. The post holder will establish and lead a portfolio of research, in collaboration with other domain experts across the University.

The appointee will teach in the School of Computer Science and Electronic Engineering at both undergraduate and postgraduate level in both his/her specialist areas in addition to general contribution to School of Law teaching. The post holder will also contribute to leading and delivering teaching in cross-University AI programmes at postgraduate level.

**Trustworthy & Responsible AI**

*How can we ensure AI is of benefit to all?*

Trustworthy AI ensuring fairness, inclusion and benefit for all in society is central to the future acceptance and adoption of AI technologies in areas from healthcare to education. Realisation of trusted AI technologies requires cross-cutting collaboration in AI governance (law, regulation, ethics), AI technology (explainability, uncertainty, fairness/bias) and end-user application domains (health, business, entertainment). Responsible AI must be embedded throughout research, design, development and deployment of AI technologies. The Surrey AI Institute must become a leader in Trustworthy AI governance, technology and training drawing on strengths in Law and Sociology with cutting edge AI Science.

**Person Specification AI**

- Research leadership in AI, machine learning, data science, computer vision, audio-visual machine perception and/or natural language processing as they relate to Trustworthy AI.
- A strong research and publication record.
- Experience in developing research proposals and securing research income.
- Experience or demonstrated ability to supervise postgraduate research students.
- Demonstrated track-record of successful research leadership and collaboration.
- Familiarity with development, delivery and assessment within Law.
- Experience of working with industry and other professional bodies.
- Excellent presentation, communication and interpersonal skills.
- Consistently collegial and supportive approach to students and colleagues.
- Experience and potential for independent and collaborative research leadership.

**Person Specification AI-Domain**

The post-holder will lead research in Trustworthy AI and the responsible design, development, deployment and governance of AI technologies. The post-holder should have expertise with a

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prove track-record Expertise is sought in AI explainability, uncertainty and fairness/bias. Research collaboration will primarily link to AI and domain experts in the Centre for Vision, Speech and Signal Processing, Department of Mathematics, Department of Computer Science and the School of Law. Key areas of expertise could include:

- AI explainability, fairness and bias
- Uncertainty in AI, deep learning and machine learning
- Counterfactual explanation and fairness
- Governance of machine learning and responsible AI
- Bayesian learning inference
- Computational statistics
- Data efficient machine learning
- Knowledge of current trends and issues in privacy preserving AI, explainable AI, or reproducible AI, and applications of these to a specific field of expertise.
- Understanding of issues surrounding the ethical use of AI and machine learning.

### Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Job Purpose.

	<b>Essential/ Desirable</b>
A higher research degree (PhD)	E
A qualifying law degree (LLB, JD) or equivalent legal training	E
Internationally Excellent research performance (continuing publication record, and evidence of actual/potential ability in external research grant income generation)	E
Strong publication record with a track record of publishing in high quality (such as upper quartile) journals.	E
Excellent communication, inter-personal and networking skills.	E
Excellent organisational and project management skills	E
Potential and willingness to develop a track record in academic leadership	D
Demonstrated ability to successfully supervise doctoral students	D
Evidence of ability to carry out high-quality teaching in Law	E
Evidence of scholarly contributions to conferences, professional meetings and societies at an international level, and evidence of achievements in other external activities at an international level	E

### Key Responsibilities

This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities (5 to 8 maximum). This should be read in conjunction with those contained within the accompanying generic Job Purpose.

### Main Responsibilities/Activities

- Contribute as a Principal Investigator of the AI Institute to establishing and leading pan-University research in People-Centre AI for the benefit of people and society in collaboration with School of Law domain expertise.
- Develop and lead a research portfolio in the area of AI and AI-Law collaboration.
- Contribute to and lead teaching at undergraduate and postgraduate level.

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- Lead a programme of research by managing associated financial/physical resources and recruiting/supervising/guiding/mentoring the work of staff and postgraduate students in own specialist subject area.
- Sustain a strong track-record of publication of high-quality research findings in appropriate primary journals and international conferences.
- Maintain a good level of research funding; contribute to planning and coordinating large multi-disciplinary or multi-Faculty bids involving collaborative groups.
- Enhance reputation in own subject area by engaging in external activities at national level such as contributions to professional networks, meetings, conferences, societies, professional and/or government bodies, editing/refereeing journals and papers.
- Perform administrative duties throughout the Institute and School as are recognised by the University in roles commensurate with the remit of an academic (e.g., Research leadership and administration, Director of Studies, Programme Director or Examinations Officer) and which contribute to the general life and work of the University.

**N.B. The above list is not exhaustive.**