

## 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.

<b>Job Title:</b>	Lecturer/Senior Lecturer/Reader in AI for Animal Health and Welfare
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### Surrey Institute for People-Centred AI (PAI) appointment

#### Faculty School/Department(s) for collaboration:

Centre for Vision, Speech and Signal Processing (FEPS), School of Veterinary Science (FHMS), Department of Mathematics (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 PAI 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 be expected to lead externally funded research, innovation and collaboration in AI applied to the Animal Health and Welfare sector. Success will lead to high quality publications, improvements in animal health and welfare and societal impact including through engagement with industry aligned with the PAI Institute research strategy. The post holder will establish and lead a portfolio of research, in collaboration with domain experts across the University and with strategic partners.

The appointee will contribute to teaching at both undergraduate and postgraduate level in their specialist areas including supervision of post graduate research students. There will also be opportunities to engage in training and workshops in collaboration with vHive (the veterinary health innovation engine) under the auspices of the Animal Health Innovation Network; a new strategic initiative in partnership with institutions including The Pirbright Institute, Animal & Plant Health Agency, Veterinary Medicines Directorate and industry. The post holder will also contribute to leading and delivering teaching in cross-University AI programmes at postgraduate level.

#### AI for Health and Wellbeing

*How can AI improve health and wellbeing?*

AI holds great promise for transforming almost every aspect of human and animal healthcare and health research, ranging from monitoring, diagnosis, clinical trials and health care delivery to health economics. AI has the potential to personalise healthcare monitoring, diagnosis and treatment for the individual in the community and at home. Realisation of the potential of AI in healthcare requires strong linkage between AI expertise, existing health (domain) expertise, key stakeholders and the public. Surrey must establish an integrated AI-Health ecosystem with key stakeholders to lead the translation of AI enabled technologies into healthcare practice for individual patient benefit.

#### Person Specification AI

- Research leadership in AI, machine learning, data science, computer vision, audio-visual machine perception and/or natural language processing.
- A strong research and publication record.
- Experience in developing research proposals and securing research income together with supervising postgraduate research students.

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- Demonstrated track-record of successful multi-disciplinary research leadership and collaboration.
- Familiarity with development, delivery and assessment of programme units.
- 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

- A track record of developing and applying AI tools in a relevant field – for example, One Health (human, animal and environmental), diagnostics (pathology, imaging etc) animal health and welfare, including companion animal, equine, livestock, wildlife, infectious diseases, chronic conditions, agriculture and food security.

### 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
Internationally Excellent research performance (continuing publication record, and evidence of actual/potential ability in external research grant income generation appropriate to career stage).	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/E(SL)
Demonstrated ability to successfully supervise doctoral students.	D/E(SL)
Evidence of high-quality innovative teaching.	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
Evidence of impact from research.	D/E(SL)
An interest in animal health	D

### 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.
- Develop and lead a research portfolio in the area of AI and AI-domain collaboration.
- Contribute to and lead teaching within 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 competitive level of research funding; contribute to planning and coordinating large multi-disciplinary or multi-Faculty bids for the AI Institute 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.
- Engage with industry collaborative initiatives such as the veterinary Health innovation engine (vHive) and the Animal Health Innovation Network
- Perform administrative duties throughout the Institute and in the School of Veterinary Medicine as are recognised by the University in roles commensurate with the remit of an academic (e.g., Director of Research, Director of Studies, Programme Director and Examinations Officer) and which contribute to the general life and work of the University.

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