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| **Job Title:** | Research Software and AI Developer |

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| **Responsible to:** | Nophar Geifman |

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| **Responsible for:** | Not applicable |

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| Job Summary and Purpose: |
| To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator. |

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| Main Responsibilities/Activities |
| To undertake a range of research activities within a specified research area, assuming responsibility for specific areas of projects and making use of new research techniques and methods, in consultation with the research award holder or supervisor. This may include laboratory experiments, computer-based simulations, library research, critical evaluation and interpretation.  Using initiative and creativity to identify areas for development of new research methods and extend the research portfolio. Analysing and interpreting results of own research. Writing up results and preparing papers for submission to appropriate journals and conferences, and other outputs as required and/or appropriate. Attend appropriate conferences for the purpose of disseminating research results and personal development. The post holder may also contribute to writing bids for research grants and will contribute to collaborative decision making with colleagues in areas of research.  Continually update technical knowledge and skills, and translate knowledge of advances in the area into the research activity.  To plan and manage own research activity in collaboration with others. To carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control.  To contribute to teaching in the Faculty by carrying out student supervision and/or demonstrating within the post holder’s area of expertise and under the direct guidance of a member of departmental academic staff, as appropriate. The post holder may occasionally be required to supervise more junior research staff. |

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| **Person Specification** |
| The post holder must have: A Masters degree (or equivalent) in Computer sciences, Engineering, Artificial Intelligence, or other areas related to computational or data sciences. Industrial experience would be an advantage.  The post holder will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results. |

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| **Relationships and Contacts** |
| Direct responsibility to the principal investigator or academic supervisor. |

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| **Special Requirements** |
| N/A |

### All staff are expected to:

* Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
* Help maintain a safe working environment by:
* Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
* Following local codes of safe working practices and the University of Surrey Health and Safety Policy
* Undertake such other duties within the scope of the post as may be requested by your Manager

**Addendum to Profile**

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| **Job Title:** | Research Software developer |

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| Job Summary and Purpose: |
| This information sheet should be read in conjunction with the accompanying generic Research Role Profile and will be used for shortlisting processes. More specifically the post holder will be expected to:  Support new initiatives within the Health and Biomedical Informatics group and the Veterinary Health Innovation Engine (vHive), in the Faculty of Health and Medical Sciences.  Be responsible for the development of bespoke software packages, integration of AI applications, analysis of data, and generation of appropriate supporting documentation and reports.  Undertake a range of research activities, assuming responsibility for specific areas of a project and making use of new research techniques and methods, in consultation with the research award holder or supervisor. |

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| Main Responsibilities/Activities |
| * Development of a bespoke software package inclusive of an algorithm for text mining, and a user interface * Integrate approaches in data mining, data visualisation, and Artificial Intelligence. * There is scope for further functionalities to be included, such as in the use of LLMs * Be involved in various aspects of project life-cycle through initial analysis, development, commissioning, testing, documenting, deployment and finally hand-over to the administration team for on-going management and support. * Plan and organise continuous technical software development to ensure alignment with evolving research and development requirements. * Develop appropriate documentation, such as user guides * The developed software will be tested, on real-world use cases, with appropriate reports generated * Contribution to other activities in support of ongoing research projects will be encouraged * Liaise with other testbed/ IT staff, providing specialist advice and guidance where needed to ensure effective transfer of skills/knowledge and compliance with regulations and code of practice. * Display a professional approach and confident communication style. |

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| **Person Specification** |
| The post holder must have:  * Degree level qualification in computing, computer sciences, data sciences, or substantial vocational experience within the field. * Recent experience on software and/or user interface projects. * Excellent coding/scripting skills in appropriate languages, such as in BASH, Python, or similar * Some level of practical experience in AI-based tool development * The ability to resolve internal resource and technical issues whilst maintaining positive external relationships is a key part of the role. * Can engage with clients and deliver on user requirements * Effective communication skills. * Experience of proactively planning and progressing work activities within general guidelines * Ability to problem solve in relation to less routine activities. * Work to assuredly to meet targets within set time frames. * Capability to make well-judged decisions on how best to allocate their available time to individual projects to best fit with changing strategic priorities. |

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| **Relationships and Contacts** |
| Direct responsibility to the principal investigator or academic supervisor. |