

Research Role Profile

Job Title:	Research Fellow A
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Responsible to:	Head of research group, or principal investigator
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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.

Main Responsibilities/Activities
<p>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 fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.</p> <p>Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare 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 of 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.</p> <p>Continually to update knowledge and develop skills, and translate knowledge of advances in the area into research activity.</p> <p>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.</p> <p>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.</p> <p>The post holder may occasionally be required to supervise more junior research staff.</p>

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Person Specification

The post holder must have:

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years experience in specified / relevant fields

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.

Relationships and Contacts

Direct responsibility to the principal investigator or academic supervisor. The post holder may be asked to serve on a relevant Faculty committee. There may be additional reporting and liaison responsibilities to external funding bodies or sponsors. The post holder may work on original research tasks with colleagues in other institutions.

Special Requirements

To be available to participate in fieldwork as required by the specified research project

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.

Research Role Profile

ADDENDUM

Job Title:	Research Fellow A
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Responsible to:	Head of research group, or principal investigator – Sneha Pinto
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Responsible for:	Not applicable
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Job Summary and Purpose:
<p>To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.</p> <p>The postdoctoral fellowship aims to build and expand our proteomics and informatics capability, primarily focused on improving human and veterinary health. The job holder will contribute to the team's mission by using advanced analytical techniques to define the relative levels of key biomarkers in the blood samples from companion animals and livestock. The post will involve developing assays for nucleic acids (e.g. miRNA) and mass spectrometry-based techniques.</p>

Main Responsibilities/Activities
<p>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 fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.</p> <p>Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare 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 of 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.</p> <p>Continually to update knowledge and develop skills and translate knowledge of advances in the area into research activity.</p> <p>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.</p> <p>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.</p> <p>The post holder may occasionally be required to supervise more junior research staff.</p>

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1. Guide analytical biochemistry research activity including study design, planning and execution of on the effective use of samples collected in the 30 to 300 microlitre volume range using devices such as those supplied by Neoteryx.
2. Proficiently assay protein levels and/or miRNA in a number of different sample types using liquid chromatography/mass spectrometry, affinity binding techniques (e.g. ELISA assays) and/or nucleic acid measurement techniques to find biomarker signatures.
3. Assess data acquired using relevant bioinformatics pipeline and/or machine learning techniques (training will be provided as necessary)
4. Develop optimised sample preparation Standard Operating Procedures (SOPs), including preparation of plasma samples and lysis of tissue and cellular samples for omics techniques using pre-existing SOPs available as templates.
5. Write up results and prepare papers for submission to appropriate journals and conferences, and other outputs as required and/or applicable. Attend appropriate conferences to disseminate research results of 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.
6. 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. Implement procedures required to ensure accurate and timely formal reporting and financial control.
7. 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.

N.B. The above list is not exhaustive.

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The post holder must have:

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years experience in specified / relevant fields

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.

Samples are provided to the job holder or will be received and logged in to storage by the post holder. They will plan the development of optimised use of the samples and assay biochemicals in the samples under the guidance of supervisors. The management team will be meeting the job holder weekly. The postholder will run assays for miRNA and proteins (using a mass spectrometer). They will keep a full record of their work in their lab book. They will record where all data is stored and inform their supervisors of this on completion of each experiment.

The post holder will work to Standard Operating Procedures provided but will seek to enhance the SOPs as a part of their work. They will be given training for any job they are asked to undertake. The important aspect of the job is rigorously developing and using standard procedures and if things go wrong discussing troubleshooting with the supervisory team.

We seek the most sensitive and reproducible assay systems for veterinary medicine research using the techniques described. The post holder will work towards this within the team.

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.

The postholder has no role in financial management and does not directly supervise other staff.

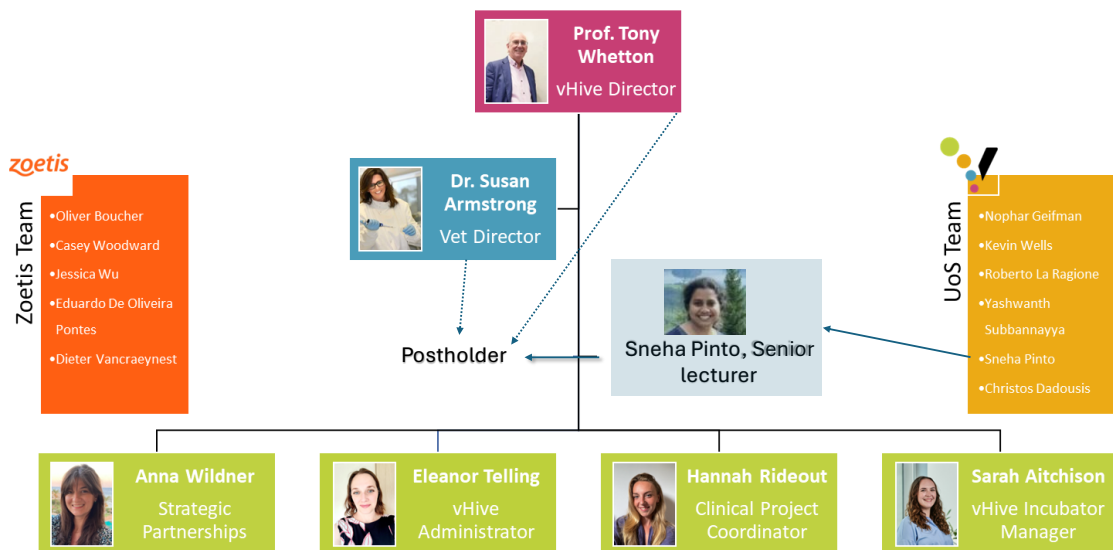
Relationships and Contacts

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The Veterinary Health Innovation Engine is a cross disciplinary entity dedicated to generation of data and then taking such data, turning it into information and thereby developing tools, approaches and devices to improve animal health. It is based in the School of Veterinary Medicine and collaborates extensively with the School of Biosciences. There has been a significant development in measurement technologies applied to human medicine research and diagnostic tool generation. We are applying these same approaches into veterinary medicine. Thus, much of the platform development work has been achieved in our lab and the labs of others.

Organisation Chart



Special Requirements

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