

**University of Derby Job Description**

# **Job Summary**

## **Job Title**

Post-doctoral Fellow in Trophoblast Research

## **College**

College of Science and Engineering

## **Location**

Kedleston Road, Derby, DE22 1GB

## **Job Reference Number**

0403-21

## **Salary**

£25,217 to £35,845 per annum

## **Reports To**

Head of Biomedical and Forensic Science

## **Line Management Responsibility**

No

# **Job Description and Person Specification**

## **Role Summary**

Contribute to a particular project on “the effects of external factors on the trophoblast invasion: An in vitro comparative analysis of the transcriptome and proteome (or projects)”, taking appropriate initiatives, contributing ideas and developing research methodologies and techniques. Contribute as necessary to teaching through supervision of undergraduate or postgraduate students and / or supervision of projects. Publish in reputable outlets and present research findings at conferences.

## **Principal Accountabilities**

1. Under the direction of the Principal Investigator, contribute to the development of new knowledge and techniques (such as multi-OMICs analysis) to the research project.
2. Contribute to the determination of appropriate research methodologies in the field of trophoblast invasion.
3. Analyse research findings and determine the need for further investigation.
4. Contribute to the writing up of research findings and dissemination through publications or seminar and conference presentations.
5. Assist with the preparation of proposals and applications to both external and/or internal bodies for funding, contractual or accreditation purposes.
6. Support the supervision of undergraduate projects and postgraduate research students in conjunction with other staff and provide training and limited teaching as appropriate.
7. Assist in the development of student research skills, for example as part of a postgraduate supervision team.
8. Plan and manage own research activity and initiate research relevant to the discipline or research project(s).
9. Where opportunities exist within the research project(s), support the development and delivery of business engagement activities, developing entrepreneurial links with external organisations.
10. Contribute to the writing of collective bids for funding, and, where funders permit, write individual bids for funding with appropriate support.
11. Undertake appropriate training and staff development.
12. Provide guidance as required to other colleagues working on related research project(s).
13. Assist and help informally students working in the same research discipline.
14. Develop internal and external contacts with other academic staff to form collaborative relationships and assist with their research project(s).
15. Understand own development needs and formulate a personal development plan.
16. Observe and implement University policies and procedures.

## **Person Specification**

### **Essential Criteria**

#### **Qualifications**

* PhD or equivalent (pending or awarded) in Placentology, Biomedical Science or relevant discipline

#### **Experience**

* An appropriate level of digital capability with practical experience of applications
* Evidence of sufficient breadth or depth of research methodologies and techniques to work in research area
* Evidence of engagement in high-quality research activity in the fields of early trophoblast invasion, in vitro cell invasion/migration and toxicological analysis; LC/MS-MS coupled with Agilent 1260 quaternary HPLC related proteomics analysis etc.
* Experience in high throughput OMICs analysis to targeted proteins/factors
* Post-doctoral experience
* Working with multidisciplinary researchers to achieve common goals
* Teaching and demonstration experience (such as Undergraduate projects, MSc and/or PhD)

#### **Skills, knowledge and abilities**

* Developing research skills, with the ability to creatively apply relevant research approaches, models, techniques and methods
* Ability to communicate complex information clearly both in writing and presentations
* Analytical ability to facilitate conceptual thinking, innovation and creativity
* Ability to build relationships and work collaboratively with colleagues, internally and externally
* Ability to use initiative and creativity to solve problems in a research context
* Self-motivated and able to work independently and as part of a team
* Human tissue culture, invasion/proliferation and migration assays
* Proteomics and bioinformatics comparative analysis

#### **Business requirements**

* Demonstrate competences, core behaviours and supplementary behaviours that support and promote the University’s core value
* Flexible to the needs of others
* Committed to ensuring a high-quality student experience
* Committed to a high-performance culture, fostering continuous improvement and driving quality
* Able to take a flexible approach to work
	+ Travel between sites and occasionally overseas for work
	+ Some evening and occasional weekend work

### **Desirable Criteria**

#### **Qualifications**

* Fellowship Status with the Higher Education Academic (HEA)

#### **Experience**

* Experience of assisting with grant applications
* Experience of writing publications for journals and presenting research at conferences
* Experience of generating research or knowledge exchange income

# **Benefits**

As well as competitive pay scales, we offer generous holiday entitlement. We also offer opportunities for further salary progression based on performance, and the opportunity to join a contributory pension scheme.

The University of Derby is committed to promoting equality, diversity and inclusion. However you identify, we actively celebrate the knowledge, experience and talents each person brings.

For more information on the benefits of working at the University of Derby go to [the Benefit pages of our website.](https://jobs.derby.ac.uk/display.aspx?id=1912&pid=0&tabId=230)