UNIVERSITY OF WARWICK

Warwick Medical School

Assistant Professor of Reproductive Biomedicine (Research and Teaching)

Warwick Biomedical Sciences

Warwick Biomedical Sciences (WBMS) is seeking an outstanding scientist whose research investigates human reproductive biomedicine at the molecular, cellular or tissue level. Areas of particular interest include tissue and organ dynamics, organoid development, embryology, endometriosis and pregnancy disorders. Applicants with expertise in other relevant areas of biomedical research will also be considered.

The Assistant Professor of Reproductive Biomedicine will be based in the Clinical Sciences Research Laboratories (CSRL) at University Hospitals Coventry and Warwickshire (UHCW). The CSRL provides excellent laboratory facilities and access to human tissue samples through the Tommy's National Reproductive Health Biobank. Close links with the Centre for Reproductive Medicine (CRM) and the Biomedical Research Unit in Reproductive Health (BRU-RH) provide access to IVF material and a strong pathway for clinical translation. Additional infrastructure includes next-generation sequencing platforms (MiSeq, NextSeq and Nanopore), advanced proteomics, super-resolution and single-molecule imaging, cryo-electron microscopy, scientific computing, and new state-of-the-art containment level 3 laboratories. We are also developing a translational medicine "bio-incubator" zone to foster innovation and support spin-out activity.

The successful candidate will have an outstanding research track record, established lines of funded research and a strong publication record demonstrating significant discoveries. They will also show the potential to continue attracting external funding and developing their research portfolio. Their work should complement existing research strengths, and they will be encouraged to build interdisciplinary collaborations with researchers across the University and with industry.

The appointee will contribute to our recently established undergraduate programmes, including the MSci/BSc in Integrated Natural Sciences and the BSc in Health and Medical Sciences, as well as our established graduate-entry MB ChB. They will also contribute to postgraduate teaching and supervision, particularly on our new MSc in Reproductive Science, which offers two specialist pathways.

The successful candidate will benefit from dedicated administrative and technical support teams, alongside the University's Research and Impact Services (RIS), which provides support with grant applications and strategic development. WBMS also operates an Internal Review Committee (IRC), offering thorough internal peer review and constructive feedback. In addition to a vibrant external seminar series and regular discipline-specific seminars, including reproductive and developmental biology, we run an internal programme through which principal investigators can share research findings and expertise, exchange ideas and develop new collaborations.

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Job Purpose

Establish a long-term, self-sustaining research programme in human reproductive biomedicine with the objective to become a globally recognised leader in their field. Undertake, teaching, administration and other activities to develop own career and profile, supporting the work of the department and developing and enhancing its reputation, both internal and external to the University of Warwick.

Duties and Responsibilities

Research

• Carry out independent research and act as principal investigator and project leader.

• Establish and maintain a strong program of research capable of attracting substantial external funding; publish your discoveries in refereed journals (open access) and disseminate findings at international meetings.

• Act as a mentor for team members and other academics when requested and take on the supervision of postgraduate research students.

• Encourage and facilitate cross-disciplinary research.

• Contribute to the leadership and long-term development of our institutional profile in biomedical sciences.

• Engage in external academic activities, for example, membership of committees of academic bodies, external examining, participation in knowledge transfer, development of industrial links and other related activities, and journal editorships.

Leadership, management and administration

• Contribute to academic and administrative leadership and participate in the development of policy.

• Support our efforts to improve the way scientific research is evaluated as set out in the San Francisco Declaration on Research Assessment (DORA).

• Perform administrative and coordination duties that are necessary for the effective operation of a successful research group.

• Participate in public engagement activities to take science to a broad range of non- specialist audiences.

• Support the department's efforts to continue the development of a positive working environment and uphold our values in terms of equality and diversity.

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Education

- Make a distinguished personal contribution to our teaching programmes at undergraduate and postgraduate levels including acting as a personal tutor and module lead where requested.
- Supervise UG student projects.
- Participate in curriculum planning and development processes, academic committees, and relevant examination processes.

Job Description

The person specification focuses on the knowledge, skills, experience, and qualifications required to undertake the role effectively. This is measured by (a) Application Form, (b) Interview (c) Presentation.

Person Specification

Essential Criteria:

1: Research doctorate in a discipline relevant to biomedical sciences. (a), (c), (d)

2: Outstanding international scientific reputation for work in human reproductive biomedicine (at one of the following three scales: molecular, cellular, tissue. (a), (c), (d)

3: Outstanding scientific track record as evidenced by influential research discoveries and contributions. (a), (c), (d)

4. Demonstrated ability or strong potential to generate research income, including from both traditional and more innovative sources. (a), (c), (d)

5: A record of successful collaborations either within or between disciplines and across organisations. (a), (c), (d)

6: Proven leadership potential. (a), (c), (d)

7: Evidence of innovative and effective teaching at undergraduate and/or postgraduate levels. (a), (c), (d)

8: Ability to make significant contributions to postgraduate training. (a), (c), (d)

9: Willingness and capacity to make a substantial contribution to all activities within Warwick Biomedical Sciences and the wider Medical School and University, including administration, planning and public engagement. (a), (c), (d)

10: High-level communication skills and the ability to liaise well with colleagues. (a), (c), (d)

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How to Apply

To be considered, please submit your application via Warwick's online application system, which will require a curriculum vitae and a covering letter outlining your suitability for the role with the names of three expert referees.

Informal enquires can be directed to Professor Andrew Blanks, Director, Warwick Biomedical Sciences **(andrew.blanks@warwick.ac.uk).**

About us

The University of Warwick is one of the UK's great success stories. In just six decades, we have become one of the country's leading universities, consistently ranked among the UK's top 10 and rising in international rankings of world-class institutions. We are a centre of excellence for education and research, with an ambition to innovate and build partnerships with industry and the healthcare sector.

Warwick Medical School (WMS) is a young medical school with ambitious plans and a strong track record across research, innovation and education. Translational research is central to our strategic ambition: we are committed to advancing cutting-edge interdisciplinary research that seeks to identify and address human disease and health challenges before symptoms emerge. We also develop, test and evaluate interventions that can slow disease progression and reduce its impact on individuals and populations. We aim to be innovative, bold, interdisciplinary and inspiring, while promoting a positive research culture and championing open science.

Our vision is to be a leading, world-class medical school, recognised for excellence in education and research. The breadth of our interests and expertise is reflected in our three dynamic and influential directorates: Warwick Applied Health (WAH), Warwick Clinical Trials Unit (WCTU) and Warwick Biomedical Sciences (WBMS).

Our Institute of Translational Medicine (ITM) works across the directorates and the wider University, and with external stakeholders, to accelerate the translation of Warwick research into practical benefits for human health. It creates the conditions, connections and support structures needed to achieve this. The ITM includes the Translational Research Office, which works with professional services colleagues across the University to provide coordinated support for academics seeking to collaborate with industry, establish spin-out ventures or explore other routes to translate their research. The ITM also provides a home for our clinical academic community, including the NIHR Integrated Academic Training talent pipeline, and builds institutional relationships in research, translation and innovation with regional NHS partners.

WMS provides education at undergraduate, postgraduate and research-degree levels and is a UK leader in graduate-entry medicine: our Warwick Doctor is recognised for the quality of its education. WMS's postgraduate portfolio offers high-quality education and continuing professional

development across areas including advanced clinical and critical care practice, diabetes, leadership, medical education, interdisciplinary biomedical research, public health and health research. In recent years, we have expanded our undergraduate portfolio with two innovative courses: MSci/BSc Integrated Natural Sciences and BSc Health and Medical Sciences. We also offer full- and part-time research degrees based at Warwick Medical School or in clinical settings, including PhDs, the MD Doctor of Medicine, PhD by Published Work and MSc by Research.

We foster a rich and inclusive education and research ecosystem, underpinned by the core values that shape everything we do: Integrity, Collaboration, Respect, Excellence, Innovation and Efficiency, and Courage.

The Medical School and University operate within a strong local, regional, national and international health and care network, supported by excellent inter-institutional links, partnerships and relationships. These connections span academia, industry and the NHS, with particular strength in our regional health ecosystem and partnerships with local NHS trusts. The strong and effective relationships established over the past 25 years support our teaching, research, innovation and wider academic activities, enabling both new and established work to be delivered to the highest standards.

Warwick Biomedical Sciences' mission is to advance world-class discovery science through interdisciplinary research that unravels the fundamental mechanisms of physiological and pathological processes, develops pioneering diagnostic and preventive technologies, and delivers ground-breaking treatments for a healthier future for all.

Our research is grouped into the following disciplines:

- Cell and Mechanobiology: discovery research focusing on cytoskeletal self-organisation, membrane dynamics and tissue mechanobiology. Researchers in this discipline form the core of the University-wide Centre for Mechanochemical Cell Biology (CMCB).
- Host–Pathogen Interactions: discovery research and innovation focusing on the pathogenic factors and host mechanisms involved in infection, alongside new approaches to diagnosis, prevention and immunity.
- Reproductive Biomedicine: discovery, translational and clinical research spanning gametogenesis, implantation, miscarriage, endometriosis, labour and birth. Researchers in this discipline form the core of the Centre for Early Life and contribute to the cross-cutting WMS programme in Women's Health.

Our cross-cutting research initiatives include:

- Research and innovation in bioinformatics, chrono medicine and nanoparticle-based drug delivery.
- Translational and clinical research into metabolic disorders, pathology, cardiology and surgery.

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University of Warwick core benefits

- Competitive salary
- Attractive pension scheme with excellent employer contributions
- Generous annual leave entitlement
- Relocation support (if applicable)
- Senior performance and remuneration review
- Recognition scheme to celebrate the excellence and contribution of staff
- Staff awards to recognise peers and colleagues and their great work

Fitness and lifestyle

- Warwick Sport offers discounted gym membership in incredible facilities.
- Flexible and hybrid working to help your work/life balance.
- Warwick Arts Centre offers seasonal staff discounts for its programme of events.

Family

- Family-friendly benefits including maternity, paternity, shared parental leave and adoption leave, career break and Time Off for Dependents for that vital family time
- University Nursery and Children's Services in a convenient on-campus location
- Warwick Family activities including family days and events in the Arts Centre

Transport

- Cycle to work scheme
- Car share scheme
- Electric car scheme

Health and wellbeing

- Employee Assistance Programme (EAP), a confidential support service to help you through any of life's issues or problems.
- Discounted private healthcare and cash plans to keep you and your family happy and healthy

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Learning and development

- Development opportunities including workshops, coaching and more.

Further information

For further insights into the School and Directorate, please visit the WMS website.

Right to Work in the UK

If you do not yet have the right to work in the UK and/or are seeking sponsorship under one of the possible visa types, please review the University's People Immigration web pages: warwick.ac.uk/services/peopleteam/internal/work_permits/

The University of Warwick provides an inclusive working and learning environment, recognising, and respecting every individual's differences. We welcome applications from individuals who identify with any of the protected characteristics defined by the Equality Act 2010.

Recruitment of Ex-Offenders Policy

As an organisation using the (DBS) Disclosure and Barring Service to assess applicants' suitability for positions of trust, the University of Warwick complies with the DBS Code of Practice and undertakes not to discriminate unfairly against any subject of a Disclosure on the basis of a conviction or other information revealed.

Life on Campus
warwick.ac.uk/about/campus

We are on the outskirts of Coventry, 3 miles from the city centre and close to the Warwickshire towns of Leamington Spa, Kenilworth and Warwick. Our location in the heart of England provides a great base to explore the history, culture and thriving industries of the local area and wider region. We are also surrounded by beautiful countryside, cultural and historical attractions, and live music and theatre venues. All of this makes Coventry and Warwickshire the perfect place to enjoy the best of both worlds.

London is just an hour's train ride from Coventry, and Birmingham is 20 minutes away by train. Birmingham International Airport is a 20-minute drive from campus.

Being centrally located, we also have easy access to a network of motorways connecting us to towns and cities all over the country. Travelling by road, air, bus, or train is incredibly easy.