ROLE PROFILE

Job Title: Associate Professor
School/Department: School of Medicine, Division of Cancer & Stem Cells
Job Family and Level: Research and Teaching, Level 6
Contract Status: Permanent
Hours of Work: Full time (36.25 hours per week) or part time to a minimum of 50%
Location: Centre for Biomolecular Sciences, University Park
Reporting to: Head of Division of Cancer and Stem Cells

Purpose of the New Role:

This is an outstanding opportunity to join the new Centre for Cancer Sciences, an interdisciplinary, multidisciplinary group of 35 academics working on cancer research and education. Currently based in Queen’s Medical Centre, the Centre for Cancer Sciences will move to a new state-of-the-art building in late 2019.

You will be an exceptional scientist with outstanding potential within the fields of tumour microenvironment, cancer immunology, cancer bioinformatics, angiogenesis or tumour vascular cell and molecular biology. The Centre for Cancer Sciences in Nottingham includes groups with strong track records in tumour microenvironment, patient-derived models of cancer both in vivo and ex vivo, cancers of the breast, prostate and digestive system (colorectal, oesophageal, liver and bile duct cancer), children’s brain cancers, acute myeloid leukaemia, and melanoma.

The post is funded to help develop both the research and teaching components of the new Centre for Cancer Sciences. You would participate in the organisation, management and strategic planning processes for the Division and the Centre for Cancer Sciences. You will act as principal investigator on major research projects in the field of Cancer Sciences, and identify opportunities for the development of new research projects and collaborations, including internationally.

You will also contribute to the development of teaching, teaching methods and assessment of the new BSc/MSci in Cancer Sciences, to ensure high teaching standards and student satisfaction. Alongside this you will supervise PhD students as part of your portfolio of research grants, and MSc students taking degrees within the Division, School and Faculty.

Main Responsibilities

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<th>% time per year</th>
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<tr>
<td>Research:</td>
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1. **Research:**
   - Provide leadership and act as the principal investigator on major research projects within the area of Cancer Sciences. Investigate and devise new research methods, generate new research approaches and contribute generally to the development of thought and practice in the field of Cancer Sciences. Lead major funding bids which develop and sustain research support for the Cancer Sciences specialist area and develop research initiatives to foster collaboration and generate income.
   - Develop proposals for research projects which will make a significant impact by leading to an increase in knowledge and understanding and the discovery or development of new explanations, insights, concepts or processes.
   - Develop and sustain an ongoing national and international reputation as a research leader in Cancer Sciences, through original research work.
   - Produce research output which will be considered to be of international excellence in Research Excellence Frameworks (REF)
   - Disseminate and explain research findings through leading peer-reviewed national and international publications, and present or exhibit at national/ international conferences and other similar events.
- Investigate and develop new approaches, methodologies and techniques appropriate to the Cancer Science research area.
- Interpret findings, review and synthesise the outcomes of research projects in Cancer Sciences and apply to research and teaching practice, where appropriate.
- Successfully supervise PhD students to completion within the required timeframes.
- Be responsible for the safe conduct of work within work area and teaching responsibilities ensuring that the School's arrangements for compliance with the University Safety Policy are implemented.
- Apply research results in public policy or commerce where there is a demonstrable benefit to the University and academic unit.

2. **Teaching:**

- Contribute to the curriculum leadership and the teaching and learning programmes in the Division, in particular on the new BSc/MSci in Cancer Sciences, and through delivery of advanced research lectures, workshops and seminars to staff and research students.
- Work with the Course Director for the BSc/MSci and colleagues to resolve issues affecting the quality of course delivery and student progress.
- Lead undergraduate and taught postgraduate research project supervision.
- Contribute to student recruitment and secure student placements and provide appropriate advice to others involved in this activity.
- Be responsible for, and supervise, practical work, including projects, field trips or placements, where it is part of the course, and advise students on techniques.
- Coach and support tutorial groups, developing their knowledge and their learning skills, and be responsible for the pastoral care of students within a specified area, dealing with sensitive issues.
- Be responsible for and comply with The University of Nottingham Teaching Quality assurance standards and procedures. Ensure teaching quality assessment and assessment of progress and other information is maintained and supplied to the University as required.

3. **Engagement, Communication and Support of Colleagues:**

- Be responsible for administrative duties in areas such as admissions, timetabling, examinations, student attendance, and represent the school on various committees and working groups in the wider University and outside of the University and managing or monitoring assets and budgets allocated as part of the role.
- Provide academic and organisational leadership to those working within the Division by for example co-ordinating resources, the work of others to ensure the effective delivery of research projects and agree objectives and work plans with the team.
- Act as a line manager (researchers, technicians, including performance review) and personal mentor to peers and colleagues, where appropriate, and provide expert advice and coaching to colleagues and students internally and externally.
- Be responsible for managing or monitoring assets and budgets allocated as part of the role.
- Act as a mentor to colleagues with less experience and providing advice on personal development.
- Co-ordinate the work of colleagues to ensure research and teaching are delivered to the required quality standards and there is equitable access to resources and facilities.
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<th>Qualifications/ Education</th>
<th>Essential</th>
<th>Desirable</th>
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<tr>
<td>PhD or equivalent in relevant subject area OR equivalent extensive professional / research experience</td>
<td>Higher Education teaching qualification or equivalent. Membership of an appropriate professional body.</td>
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<tr>
<td>Skills/Training</td>
<td>Proven ability to provide effective leadership and management of groups and teaching activities, and devise, advise on and manage learning and research programmes. Proven ability with demonstrated success in obtaining and effectively managing sources of funding, providing effective leadership, planning, and building, resourcing a team and delivering research results. Proven ability to build relationships and collaborate with others, internally and externally. Development and delivery of teaching units. High analytical ability to facilitate conceptual thinking, innovation and creativity. Evidence of successful supervision and examination of PhD students. Excellent oral and written communication skills including the ability to communicate with clarity on complex and conceptual ideas to those with limited knowledge and understanding as well as to peers, using high level skills and a range of media. Skills in counselling, pastoral care and motivating students and staff.</td>
<td>Research experience in tumour microenvironment, cancer bioinformatics, or tumour microcirculation to develop research programmes and methodologies. Successful consultancy activities and/or delivery of specialist services to external customers/clients.</td>
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<td>Experience</td>
<td>Experience and demonstrated success in delivering teaching within an agreed quality framework, in particular to undergraduates. Demonstrated ability to motivate and inspire peers and more junior researchers. Research experience with an established national and growing international reputation in the field of Cancer Sciences. Experience in developing and devising new research programmes, models, techniques and methods.</td>
<td>An understanding of University management systems and the wider higher education environment. Supervision of postgraduate students on industrial or knowledge transfer projects. Leadership experience. Current successful research group in cancer centre. Proven record of promoting and maintaining collaborative links with industry/business/community. Experience, achievement and growing reputation in the discipline, reflected in relevant national committee.</td>
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<td>Experience of devising, advising on and managing learning and research programmes.</td>
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<td>Experience of convening modules on taught courses.</td>
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<td>Demonstrable sustainable contribution to high quality publications considered to be of international excellence and within Research Excellence Frameworks (REF)</td>
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<td>memberships, and/or involvement in national research events.</td>
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<td>Other</td>
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<td>Willingness to adopt the Ethos and Principles of the School of Medicine.</td>
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The University of Nottingham strongly endorses Athena SWAN principles, with commitment from all levels of the organisation to ensure equal opportunity, best working practices and fair policies for all.

The School of Medicine holds a Silver Athena SWAN award in recognition of our achievements in promoting and advancing these principles. Please see [http://www.nottingham.ac.uk/medicine/about/athena-swan.aspx](http://www.nottingham.ac.uk/medicine/about/athena-swan.aspx)
**Appendix 1**

**The University of Nottingham**

Described by the Times Good University Guide 2017 as “the nearest Britain has to a truly global university.” The University of Nottingham has award-winning campuses in the UK, China and Malaysia and hosts a global academic community in all three countries. The University has an institution-wide commitment to embedding an international dimension across all of our activities enabling us to produce graduates who are empowered to excel in a challenging global environment and deliver genuinely world-changing research.

Our reputation for world-class research has yielded major scientific breakthroughs such as Nobel-winning MRI techniques, drug discovery, food technologies and engineering solutions for future economic, social and cultural progress.

Already ranked among the UK’s elite universities and global polls for research excellence, our reputation for world-class research has been further enhanced with the 2014 results of the Research Excellence Framework (REF).

In addition to scoring highly in quality rankings covering major disciplines in science, engineering, the social sciences, medicine, business and the arts, it is Nottingham’s research power rankings which demonstrate the impressive volume of excellent research which is carried out. We are now ranked 8th in the UK on a measure of ‘research power’ which takes into account both the quality of research and the number of research-active staff who made REF returns, confirming Nottingham’s place in the top tier of the world’s elite higher education institutions.

The main University campus is set beside a lake, in an extensive belt of woodland, parks and playing fields. The 330 acre University Park Campus is the focus of life for more than 32,000 students and houses the majority of the University’s academic schools and many of the central Services. The Jubilee campus is situated 2 miles away from the University Park, and provides extra capacity. The University Medical School is situated next to the University Park. Together with the University Hospital, it forms the Queen’s Medical Centre (QMC).

**University of Nottingham Medical School**

Nottingham has a strong reputation for both clinical medicine and teaching. As one of the most popular medical schools in the country, it is able to select excellent students and produce and attract good junior doctors.

The **School of Medicine** comprises the Divisions of Cancer and Stem Cell Sciences, Child Health, Obstetrics and Gynaecology; Clinical Neuroscience; Epidemiology and Public Health; Primary Care; Psychiatry and Applied Psychology; Rehabilitation and Ageing; Medical Sciences and Graduate Entry Medicine; Respiratory Medicine; Rheumatology, Orthopaedics and Dermatology and the Nottingham Digestive Diseases Centre. The School also hosts the Education Centre, the Centre for Interprofessional Education and Learning, the Clinical Research Facility, the Clinical Skills Centre, NIHR Design Service East Midlands, Nottingham Clinical Trials Unit, PRIMIS and Medical Imaging Unit.

The School of Medicine brings together in one School staff undertaking research for the benefit of the health of patients. It includes all primary care and hospital-based medical and surgical disciplines, principally in the Queen’s Medical Centre and City Hospital Nottingham Campuses, Royal Derby Hospitals NHS Foundation Trust and also at the University’s main campus and at the King’s Meadow and Jubilee Campuses. Most of our School’s Senior Researchers and Teachers are also clinicians who dedicate 50% of their time to patient care within the Nottingham University Hospitals NHS Trust & Royal Derby Hospitals NHS Trust. This close juxtaposition brings cutting-edge clinical care to our patients and clinical relevance to our research and teaching. We are closely integrated with our full time NHS clinical colleagues, many of whom are themselves leaders in research and teaching and who work closely with the University and this increases the mutual benefit from integration between the University and NHS.

**Mission:**

Our mission is to improve human health and quality of life locally, nationally and internationally through outstanding education, research and patient care.

**Priorities:**

1. **Teaching and learning**, particularly training tomorrow’s doctors and teaching specialised postgraduates
2. **Research and research training**: We will perform and support the highest quality “big” research which impacts on human health and disease
3. **Partnership with the NHS** and other healthcare providers
4. **Visibility and profile of the School of Medicine**: We will do what we do better, and we will tell others about it

**Ethos and principles:**

1. **Having people and patients at the heart of all we do**: our teaching and learning, our research and our patient care
2. **Contribution within the School of Medicine and to society** beyond our immediate roles; helpfulness and service
3. **Openness and fairness**, with particular emphasis on communication (both internal and external) and on equality and diversity among students and staff

4. **Personal and group responsibility** for all aspects of our work, within a culture of opportunity and reward

Our research spans 11 major themes, ranging from cancer to vascular medicine. We work closely with industry and the NHS. Our world-leading research ranges from basic and translational science through to clinical trials, epidemiology, and health services research. Our clear theme is improving human health, underpinning a vibrant postgraduate research training programme leading to PhD or DM. Many of our academics are clinicians, using their expertise to provide cutting edge specialised treatment to NHS patients; reflecting our ethos that patients are at the heart of all we do.

The partnership between University of Nottingham and Nottingham University Hospitals NHS Trust was recently awarded by NIHR, a transformational £23.6 million to expand their pioneering work into new treatments and diagnostics for a wide range of health problems, establishing a new Biomedical Research Centre (BRC), which will incorporate two existing smaller Biomedical Research Units in the city. The Nottingham BRC will be the leading UK hub in five key areas of health research:

- Deafness and hearing loss
- Gastrointestinal and liver disease
- Respiratory medicine
- Musculoskeletal disease
- Mental health technology

At the core of the Biomedical Research Centre will be Nottingham’s world-leading expertise in magnetic resonance imaging (MRI). It means the latest medical imaging research and technology pioneered here can be translated into real benefits for patients in all five of the BRC’s research areas.

In the 2014 Research Excellence Framework the four Units of Assessment included in the School of Medicine were among the six most improved in the whole University since RAE 2008: Over 80% of our research in 2014 was graded as world-leading or internationally excellent. Our research spans 11 major themes and ranges from basic and translational science through to clinical trials, epidemiology, and health services research. We work closely with industry and the NHS. Our research is underpinned by a strong postgraduate research training programme leading to PhD or DM. Our major research themes are in Cancer and Stem Cells; Child Health, Obstetrics & Gynaecology; Clinical Neurosciences; Dermatology; Digestive Diseases; Epidemiology and Public Health; Mental Health; Musculoskeletal physiology and disease; Primary Care; Rehabilitation and Ageing; Respiratory Medicine; and Renal Medicine.

The School of Medicine trains tomorrow’s doctors on a vibrant undergraduate medical course with a unique intercalated BMedSci, as well in a specialised graduate-entry programme built around clinical problem solving. We teach medicine and related disciplines at both undergraduate and postgraduate level. We have a dedicated clinical academic training programme and are committed to training PhD and doctoral research students and to supporting postdoctoral clinicians and scientists in their research.

Professor Tony Avery is Dean of the School of Medicine.

For further information, please see our website [http://www.nottingham.ac.uk/medicine](http://www.nottingham.ac.uk/medicine)

**Nottingham**

Central within the East Midlands, Nottingham is a vibrant and prosperous city with something to offer everyone. It is one of the UK's leading retail centres and has a huge variety of restaurants, bars and nightclubs which attract people from all over the UK. Culturally, it has good theatres, an arena which attracts both national and international performers and a range of historical interests relating to subjects such as the lace industry, Lord Byron and DH Lawrence. Nottingham is also known for sport, being the home of Trent Bridge Cricket Ground, Nottingham Forest and Notts County Football Clubs, the National Water Sports Centre and the Nottingham Tennis Centre. There is a good network of roads with easy access to the M1 and the A1, a fast frequent rail service to London and other major cities. Nottingham East Midlands Airport is only eighteen miles away.

The city is set within a county of outstanding natural beauty which includes Sherwood Forest, Wollaton Park, lively market towns and wonderful historic buildings. Housing is relatively inexpensive and, in addition to the two Universities, there are excellent schools and colleges available.

**To find out more about Nottingham, use the following links:**

- University of Nottingham [http://www.nottingham.ac.uk](http://www.nottingham.ac.uk)
- Zoopla (Guide to local properties) [http://www.zoopla.co.uk/](http://www.zoopla.co.uk/)

**My Nottingham** (information on schools, term dates, school transport etc.) [https://www.nottinghamcity.gov.uk/](https://www.nottinghamcity.gov.uk/)