Research Fellow

School of Medicine, Medical Sciences and Nutrition,

Closing date: 25 April 2022
Interview date: To Be Confirmed
Reference number: ROW082RX
INTRODUCTION

The Rowett Institute, University of Aberdeen is world-leading in nutrition research investigating the relationships between food, diet, human health, gut health and the environment. Housed in a purpose-built building on the Foresterhill Health Campus, it has state of the art facilities including a dedicated Human Nutrition Unit and Analytical facility. As part of the School of Medicine, Medical Sciences & Nutrition, the Rowett is a vibrant and exciting working environment for both established and early career researchers.

Obesity and type 2 diabetes are among the global health care challenges of the 21st century. The primary cause of obesity is the consumption of more food than the body requires, calories that are then stored as fat. An understanding of the biological mechanisms regulating appetite, food choice and meal size is essential to successful prevention and treatment of obesity and type 2 diabetes. The brain represents the master coordinator of appetite, employing a number of interwoven neurological circuits to continually appraise and respond to changes in nutritional state. The neurocircuitry underpinning food intake, obesity and type 2 diabetes is the focus of Professor Lora Heisler’s and Dr Sergiy Sylantyev’s research programme, supervisors on this research project.

Professor Heisler is Chair in Human Nutrition and Head of the Obesity and Food Choice Theme at the RI. The overall aim of Professor Heisler’s and Dr Sylantyev’s research programme is to investigate the basic physiology of appetite, body weight, and insulin action by examining the brain circuitry of neurotransmitter and neuropeptide systems. Professor Heisler’s and Dr Sylantyev’s laboratories utilise the latest technology to address the most pressing research questions with the ultimate aim of improving metabolic health.

A Research Fellow is sought to join the team. The three year post is funded by the UK BBSRC.

JOB DESCRIPTION

MAIN PURPOSE OF THE ROLE:

This post recruits experienced, highly motivated post-doctoral fellows committed to a career in research, providing consistent and continuous high level intellectual and practical input to a dynamic research group. You will have a PhD in Neuroscience, Physiology, Biochemistry or Pharmacology with experience in a relevant area. Particular skills and experience required include molecular biology, histochemistry, neurosurgery and in vivo metabolic phenotyping. The successful candidate will be required to function as an outstanding post-doctoral fellow, running independent projects leading to publications and presentations. Candidates will also be required to supervise more junior laboratory members.

Training will be provided to enable the successful candidates to extend and complement their existing skills.
KEY RESPONSIBILITIES:
The successful candidate will have the following roles and responsibilities:

- Responsible for planning and conducting research on a day-to-day basis, ensuring that it is completed efficiently, on time and to the highest of research standards.
- Generating and analysing data for presentations and publications.
- Maintaining excellent study plans and records of research.
- Take a leading role in the preparation of research papers for publication and presentation at conferences.
- Keep up-to-date with the current and relevant literature and methodologies in order to gain expert working knowledge of the topic under study.
- Assist with the general running and organisation of the research laboratory.
- Train staff in neurobiology of obesity research techniques.
- Occasional requirement to work outside normal working hours.
- Establish and maintain links with colleagues and external collaborators through active participation in research.
- Participate in the School research events and attend research seminars, conferences, staff development workshops and liaise with experts in the field.
- Supervise students where required.

CANDIDATE BACKGROUND

Candidates should meet the following criteria:

Knowledge

- PhD in a relevant subject area.
- Background in obesity or diabetes research.
- Knowledge of transgenics, metabolic phenotyping and histochemistry.

Skills

- Excellent communication skills, both written and oral.
- Ability to work independently and as part of a team, as required.
- Evidence of independent writing of papers and reports.
- Ability to think critically.
- Skills in the relevant research techniques (eg immunohistochemistry, genotyping, tolerance tests, confocal microscopy, fluorescent in situ hybridisation, tissue culture, TaqMan, etc).

Experience

- Experience of phenotyping.
- Experience of metabolic phenotyping.
- Experience in microscopy and confocal imaging.
- Experience in scientific publishing and in presenting material to scientific conferences is required.
- Ability to organise own workload, including forward planning.
- Ability to work to tight deadlines.
- Flexible approach.
TERMS OF APPOINTMENT

Salary will be at the appropriate point on the Grade 6, £33,797-£40,323 per annum and negotiable with placement according to qualifications and experience.

The post is funded by the BBSRC and will be offered for a period of 36 months. This appointment will be made subject to the usual terms and conditions of employment of the University.

Any appointment will be made subject to satisfactory references and probation period.

For further information on various staff benefits and policies please visit www.abdn.ac.uk/staffnet/working-here

This role is based in the UK and as such the successful candidate will be required to live and work in the UK.

Should you require a visa to undertake employment in the UK you will be required to fulfil the minimum points criteria to be granted a Certificate of Sponsorship under the requirements of the Skilled Worker visa. At the time an offer of appointment is made, you will be asked to demonstrate that you fulfil the criteria in respect of qualification and competency in English. For research and academic posts, we will consider eligibility under the Global Talent visa. Please do not hesitate to contact Natalie Reid, HR Adviser (e-mail: n.reid@abdn.ac.uk) for further information.

AT A GLANCE

SALARY:
Grade 6
£33,797-£40,323 per annum

HOURS OF WORK:
37.5 hours per week

CONTRACT TYPE:
Open-ended, project limited for 36 months

LOCATION:
Aberdeen
## PERSON SPECIFICATION

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<td><strong>Education/Qualifications</strong></td>
<td>Academic, technical and professional education and training</td>
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<td>• PhD in a relevant subject area (e.g. molecular biology, neuroscience)</td>
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<td><strong>Work and Other relevant experience</strong></td>
<td>Experience in working within a team in the field of obesity or diabetes research.</td>
<td>Extensive and documented evidence of stereotaxic surgery experience (e.g. scientific publications).</td>
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<td>• Experience in working within a team in the field of obesity or diabetes research.</td>
<td>Laboratory experience in gene manipulation, genotyping, designing primers and animal colony management.</td>
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<td>• Extensive and documented evidence of stereotaxic surgery experience (e.g. scientific publications).</td>
<td>Laboratory experience with metabolic phenotyping.</td>
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<td>• Laboratory experience in gene manipulation, genotyping, designing primers and animal colony management.</td>
<td>Laboratory experience with histochemical and biochemistry techniques.</td>
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<td>• Laboratory experience in gene manipulation, genotyping, designing primers and animal colony management.</td>
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<td>• Laboratory experience with metabolic phenotyping.</td>
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<td>• Experience in scientific publishing in obesity or diabetes as lead author.</td>
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<td><strong>Personal qualities and abilities</strong></td>
<td>Excellent written and oral communication skills</td>
<td>A highly motivated, ambitious individual</td>
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<td>• Ability to work independently and as part of a team</td>
<td>Evidence of independent writing of papers and reports</td>
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<td>• Ability to think independently</td>
<td>Demonstration of good organisational and time-management skills</td>
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<td>• Excellent record keeping</td>
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<td>• Ability to plan work load, forward plan and work to tight deadlines</td>
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<td><strong>Other</strong></td>
<td>Flexibility to work out of normal office hours (when required)</td>
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<td>• Travel to meetings with collaborators, as required, which may involve overnight stays</td>
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The University of Aberdeen is a broad based, research intensive University, and we put students at the centre of everything we do. Outstanding in a wide range of discipline areas, Aberdeen is credited for its international reach and commercialisation of research ideas into spin out companies. The University has over 16,000 matriculated students and 3,600 staff representing 130 nationalities. We encourage bold thinking, creativity and innovation, and we nurture ambition with many opportunities for professional and personal development in an inclusive learning environment which challenges and inspires.

CURRENT CONTEXT

The University continues to build on its achievements. Underpinning our high performance and significant growth is a £100m investment in Aberdeen’s estate which will include the completion of a new Science Teaching Hub, the regeneration of the historic King’s Quarter and a new Business School building. The University has also invested in 50 new academic posts and in 2020 launched five interdisciplinary, cross-institution Research Centres that will catalyse world-leading research in our areas of strength. Our five Interdisciplinary Challenges are: Energy Transition; Social Inclusion and Cultural Diversity; Environment and Biodiversity; Data and Artificial Intelligence; and Health, Nutrition and Wellbeing.

ABERDEEN 2040

On our 525th anniversary as a University we launched Aberdeen 2040, our strategic vision for the next 20 years. Four strategic themes will shape our learning and discovery, underlined by 20 commitments we have made against each theme:

- **Inclusive**
  We welcome students, staff and partners from all backgrounds, organisations and communities. We value diversity.

- **Interdisciplinary**
  We innovate in education and research by generating, sharing and applying new kinds of knowledge. We learn together.

- **International**
  We connect with others and extend our networks and partnerships around the world. We think across borders.

- **Sustainable**
  We understand and nurture our environment, and take care of our resources, including our people and finances. We work responsibly.
OUR EDUCATION

Recognised as the Scottish University of the Year in the Times and Sunday Times Good University Guide 2019, we remain true to our roots as an ancient Scottish university, combining breadth and depth in our degree programmes and drawing strength from the quality of our research. Our flexible curriculum encourages students to grow as independent learners and therefore to thrive as graduates in the diverse workplaces of the future. Our education is open to all and we are setting ambitious targets to further widen access.

OUR RESEARCH

Researchers at the University of Aberdeen have been at the forefront of innovation and excellence throughout the centuries, generating insights in medicine, science, engineering, law, social sciences, arts and humanities. This research has contributed to five Nobel prizes as well as other awards such as the Queen’s Anniversary prize. Our research is intellectually rigorous working within our established areas of excellence as well as new methods of enquiry. We will continue to generate new knowledge addressing economic and societal issues with ambition and imagination, ensuring that it is globally excellent and locally relevant.

INTERNATIONAL

Aberdeen is increasing its international presence, positioning the University as a global organisation and building on established global partnerships in e.g. Qatar, China, North America, Europe. We feature in the top 50 institutions worldwide for international students¹ and have been named 32nd in the world for International Outlook². The University of Aberdeen is proud to be the first UK University to operate on a dedicated campus in Qatar. Phase 1 of this partnership with AFG College has successfully recruited over 600 students. Phase 2 will see the creation of a substantially larger campus, with capacity for at least 5,000 students and research activity. For further information on our Qatar campus visit www.abdn.ac.uk/qatar.

IMPACT

Our dedication to building a sustainable future is reflected in the Times Higher Education Impact Rankings 2021 where we were ranked in the top 60 Universities worldwide for positive impact on society.

In 2020 the University signed the United Nations Sustainable Development Goals accord, solidifying our commitment to developing the world in a sustainable way. In 2021 we were listed in the global Top 50 for 6 of these goals and in the UK Top 20 for all 17³.

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¹ Times Higher Education World University Rankings 2021
² QS World University Rankings 2021
³ Times Higher Education Impact Rankings 2021
THE SCHOOL OF MEDICINE, MEDICAL SCIENCES AND NUTRITION

The School (https://www.abdn.ac.uk/smmsn/index.php) encompasses all of the disciplines that underpin today’s medicine, including biomedical sciences, health sciences, nutrition and medical, medical science and dental education and these are organised into five Institutes. The largest school in the University, the SMMSN has five Institutes: the Institute of Medical Sciences (IMS), the Institute of Applied Health Sciences (IAHS), the Rowett Institute, the Institute of Education in Medical and Dental Sciences (IEMDS) and the Institute of Dentistry, comprising all of our undergraduate and postgraduate programmes and our own graduate entry Dental School.

Staff are line managed and research opportunities are supported through our institutes which work together in an integrated and coordinated way to deliver research and teaching across the School, details of which can be found on their websites as below.

- The Institute of Applied Health Sciences https://www.abdn.ac.uk/iahs/
- The Institute of Medical Sciences http://www.abdn.ac.uk/ims/
- The Rowett Institute http://www.abdn.ac.uk/rowett/
- The Institute of Education for Medical and Dental Scienceshttps://www.abdn.ac.uk/iemds/
- The Institute of Dentistry https://www.abdn.ac.uk/dental/

The position is based within the Rowett Institute, which moved to its Foresterhill campus site in 2016, and whose staff undertake nutrition research to help improve people's lives through the prevention of ill-health and disease. The new Rowett Institute building provides the University of Aberdeen with a facility with unique capabilities for human nutrition and metabolic research.
Within the IMS, our scientists are working towards the creation of effective therapies for patients with a range of debilitating and life-threatening conditions. Current research areas include: arthritis and musculoskeletal medicine; cell developmental and cancer biology; immunity, infection and inflammation; metabolic and cardiovascular health; microbiology and translational neuroscience.

Within the IAHS, research is focused on improving health and health care delivery. It is home to a multidisciplinary grouping of around 100 university academic staff who conduct population and clinically-orientated health research and hosts the Health Services Research Unit (HSRU) and Health Economics Research Unit (HERU), both funded by the Chief Scientist’s Office (CSO) of the Scottish Government.

As well as being the organisational home to the teaching scholarship staff and responsible for oversight of the UG and PGT programmes offered by the School, the IEMDS promotes and supports excellence in medical education through research and development, with a focus on conceptually and theoretically robust research and development which has strong potential for reaching international recognition.

The Dental Institute runs an undergraduate BDS programme, a growing suite of masters programmes for professional development together with an active research programme in the applied sciences and education as they relate to oral healthcare.

We have a number of specialist Centres representing areas of particular research strength and capacity within the School all of which are willing to support colleagues on projects in their areas. More information is available at the following websites.

- The Centre for Healthcare Education Research and Innovation (https://www.abdn.ac.uk/cheri/index.php)
- The Centre for Health Data Science (https://www.abdn.ac.uk/achds/)
- The Aberdeen Cardiovascular & Diabetes Centre (https://www.abdn.ac.uk/acdc/) and
- The Aberdeen Centre for Arthritis and Musculoskeletal Health (https://www.abdn.ac.uk/acamh/)

The School is home to over 800 staff and 2000 fte students. It is located on the Foresterhill site, shared with our main clinical partner, NHS Grampian, with whom we work in close collaboration at primary and secondary care levels. This is one of the largest integrated healthcare delivery, training and research sites in Europe and has rich assets including state-of-the-art academic (research and teaching) and clinical buildings. Excellent infrastructure is also provided through core facilities for biomedical science including flow cytometry, proteomics, microscopy and genome sequencing, support for data health science projects and clinical trials.

The last major academic capital development was the opening of the Rowett Institute, in March 2016. Currently, the NHSG is carrying out an exciting £164 million building development creating The Baird Family Hospital and The Aberdeen and North Centre for Haematology, Oncology and Radiotherapy (ANCHOR) Centre Project, scheduled for completion in 2021.
Scotland’s third largest city, Aberdeen sits on the coast between the mountains of Aberdeenshire and the stunning North Sea coastline. The Aberdeen City region is a can-do place that is actively investing, at scale, in its future.

Renowned as a Global Energy Hub, Aberdeen is a vibrant, entrepreneurial region, home to a unique mix of business opportunities and specialist skills across various sectors including energy, technology, life sciences and food & drink. More than 20% of Scotland’s top businesses are located in this region which is taking great strides to ensure that it continues to compete on a world stage. Investments of more than £10 billion of public and private infrastructure is due to be delivered before 2030, marking an exciting time to be part of a genuine world-class location.

Built from sparkling local granite Aberdeen has earned the name of the Silver City. As the energy capital of Europe, Aberdeen nevertheless retains its old-fashioned charm and character making it an attractive place in which to live, work and study. Due to its global business and international energy industry credentials, Aberdeen is well served by local and national transport infrastructure with excellent rail networks that run both North and South of Scotland and the rest of the UK. It also acts as an international travel hub. Flying time to London is just over one hour with regular daily flights and serves international travel to European centres such as Amsterdam (Schiphol) and Paris (Charles de-Gaulle) as well as flights to other European destinations.

The City and the surrounding countryside provide a variety of urban, seaside and country attractions. Aberdeen has first class amenities including His Majesty’s Theatre, Music Hall, Art Gallery, the P&J Arena, Museums, and Beach Leisure Centre. The City is framed by its accessible beach front which is within a short walk of the city centre and there are an array of activities available across the region such as hill walking; mountaineering; sailing; surfing; salmon, trout and sea fishing; golf; sailing; surfing and windsurfing. The surrounding countryside, known as Aberdeenshire, is also one of Scotland’s most appealing regions. Royal Deeside and the Cairngorms National Park are within easy access of the city, and there are a variety of towns and villages scattered along the coastline.

The city and the surrounding area have ranked consistently highly in nationally recognised quality of life surveys, coming out top 10 as one of the best places to live in Scotland in 2020 in the annual Bank of Scotland survey.

To find our more visit www.visitabdn.com
EQUALITY AND DIVERSITY

The University values a diverse working environment and recognises the benefits this can bring. The University is keen to receive applications from individuals from across all of the equality protected characteristics (age, disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race, religion or belief, sex, sexual orientation).

The University supports opportunities for flexible working for a range of reasons and has policies in place to facilitate this. The policies can be found at https://www.abdn.ac.uk/staffnet/working-here/flexible-working--5607.php.

The University’s commitment to gender equality has been recognised through the achievement of an Athena SWAN Bronze award at an institutional level and across all its subject areas. The University is also a Stonewall Diversity Champion to further LGBT+ equality.

The University is signed up to Advance HE’s Race Equality Charter, affirming the University’s commitment to the charter’s aim of improving the representation, progression and success of minority ethnic staff and students within higher education.

Candidates who are British Sign Language (BSL) users can contact us directly by using contact SCOTLAND-BSL.

The University is delighted to be accredited as a Disability Confident employer and strives to ensure that disabled staff and students have the opportunity to work and study in an inclusive, accessible and supportive environment.

www.abdn.ac.uk/staffnet/governance/equality-and-diversity-277

HOW TO APPLY

Online application forms are available at www.abdn.ac.uk/jobs

The closing date for receipt of applications is 25 April 2022

Should you wish to make an informal enquiry please contact:

Should you wish to make an informal enquiry please contact (by email in the first instance): Professor Lora Heisler (lora.heisler@abdn.ac.uk).

Please do not send application forms or CVs to Professor Heisler.

Please quote reference number ROW082RX on all correspondence