1495 UNIVERSITY OF ABERDEEN

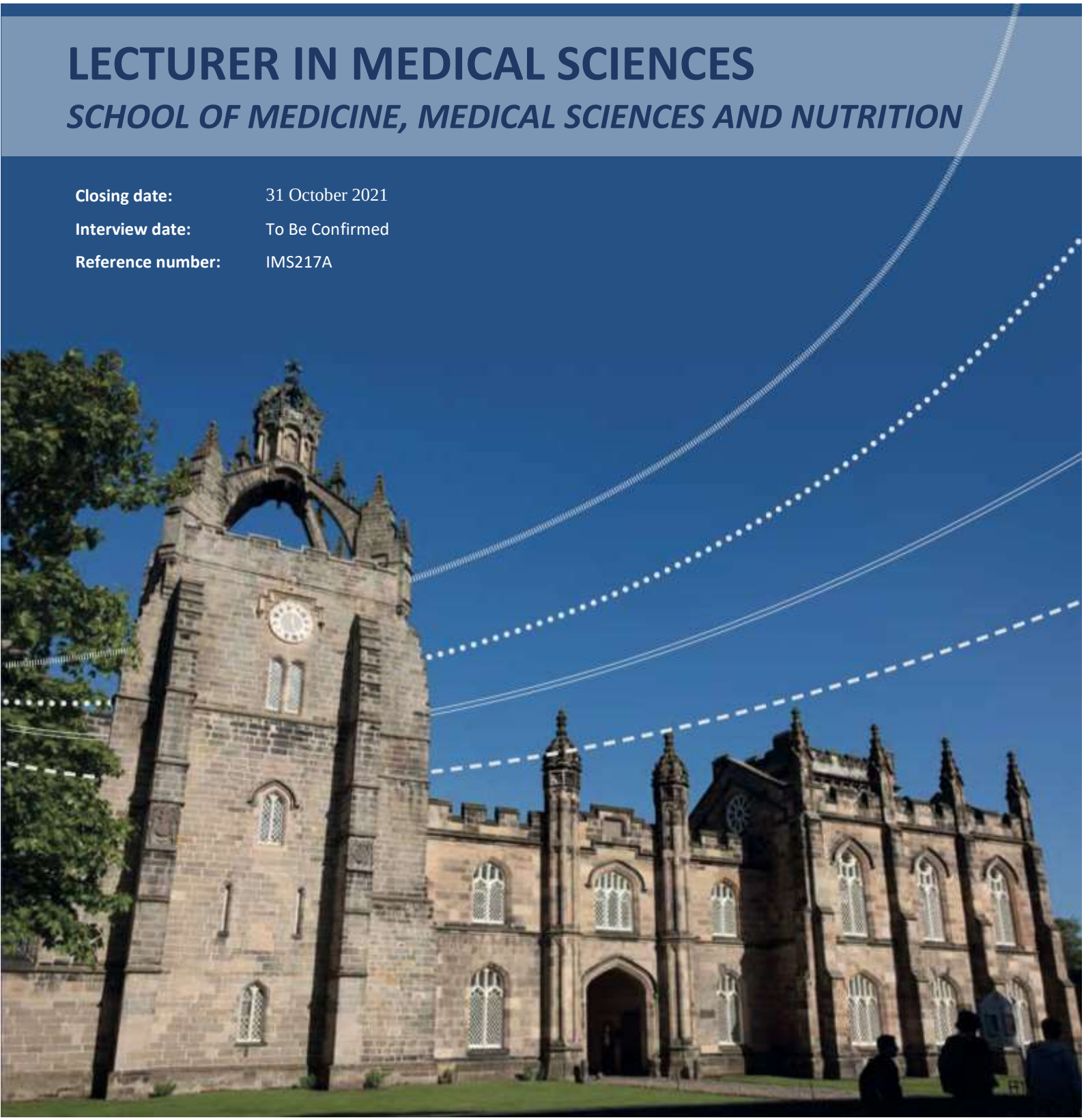
LECTURER IN MEDICAL SCIENCES

SCHOOL OF MEDICINE, MEDICAL SCIENCES AND NUTRITION

Closing date: 31 October 2021

Interview date: To Be Confirmed

Reference number: IMS217A



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Healthy Working Lives

Athena SWAN Bronze Award

Stonewall SCOTLAND DIVERSITY CHAMPION

INTRODUCTION

We are seeking to appoint talented individuals to 6 Lecturer positions, with research interests that use cell and molecular approaches within the medical sciences. These researchers will have an excellent track record of published research, a capacity for innovation and collaboration across the medical sciences, a passion for communicating their subject to the next generation of scientists and medical and dental students at undergraduate and postgraduate level, and evidence of ability to secure grant income. Evidence of the ability to develop commercial impact from research would be of additional interest.

Applications are particularly welcome from candidates with interests within one of the following areas of the medical sciences where we have internationally recognised strengths; arthritis and musculoskeletal science; cardiovascular disease, stroke and metabolic health including obesity; neuroscience including neurodevelopment; women's health; developmental biology; genetics; cancer; molecular and medical microbiology. Research with a focus on precision medicine would be of additional interest.

We are particularly interested in individuals who are applying one or more of a range of research methodologies including: bioinformatics; genomics, and population genetics; molecular biology; protein biochemistry including protein structure-function studies; immunology; systems and synthetic biology. We anticipate that applicants will employ one or more of a variety of discovery or translational models including of human, animal, in-vitro.

Candidates will expect to contribute actively to undergraduate and postgraduate teaching and develop new teaching. They will have, or work towards, Fellowship (FHEA) under the UK Professional Standards Framework for teaching, or equivalent.

The successful candidates will be based within the Institute of Medical Sciences (IMS) (http://www.abdn.ac.uk/ims/) and have the capacity to synergise with existing areas of research interest across the School of Medicine, Medical Sciences and Nutrition, with evidence of a record of multidisciplinary approaches and collaboration.

The IMS https://www.abdn.ac.uk/ims/ provides modern laboratory space with access to excellent Core Facilities (next-generation sequencing, imaging, cytometry, proteomics ND analytical chemistry) to support outstanding research. Located on one of the largest integrated healthcare campuses in Europe and adjacent to a large teaching hospital and associated specialist academic and clinical facilities, the IMS is an ideal base from which to carry out translational research. The appointee to this position will benefit from the staffing and infrastructure associated with the IMS and will be ideally positioned to collaborate with colleagues from the NHS and from our world-leading Institute of Applied Health Sciences.

Located adjacent to the IMS on the health science campus, the Rowett Institute has internationally recognised strengths in obesity and metabolic health, gut health including immunology and the microbiome, life course and population health. The appointee will be able to demonstrate an ability and potential to apply their research at the interface with one or more of these areas of strength and focus across the IMS and Rowett.

The Foresterhill health sciences campus is planning a major expansion of its already significant knowledge transfer incubator space, with a new Bio-Therapeutics Hub for Innovation, funded by the Aberdeen City Region Deal and led by the development body Opportunity North East. These facilities will be attractive to candidates with interests in knowledge transfer and commercialisation of their research.

The appointees will bring expertise and innovation to create bridges across our internationally renowned laboratory-based discovery science in the IMS and the Rowett Institute, and the world-leading population studies in the Institute of Applied Health Sciences.

Collaborations with colleagues in NHS Grampian are made easier by being on the same healthcare site. These clinical links provide significant depth to our research and ensures patient-centred relevance and clinical translation through the state-of-the art clinical research facilities.

An attractive package, commensurate with appointment grade, is available including relocation and start-up funds.

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JOB DESCRIPTION

MAIN PURPOSE OF THE ROLE:

We wish to appoint an excellent scientist with an academic record of accomplishment in the cell and molecular medical sciences. The post is aimed at applicants who can work at the interface of molecular specialties providing a bridge between our areas of core strength that include neuroscience, host-pathogen interactions, antimicrobial resistance, cancer, metabolic health including cardio-vascular disease, immunology, regenerative medicine in musculo-skeletal science, cell and developmental biology, genome biology and cancer, translational neuroscience including neurodegeneration, and molecular or medical microbiology.

The purpose of these posts reflects the standard academic contract to deliver approximately 50% each of research and teaching activities. Help and time will be given to support both areas of work.

Applicants will be expected to establish a research programme in their chosen field at the interface with one of the areas of IMS research strengths. They will have a proven ability to attract early career research funding from one or more sources including charities, research councils (UKRI), government funding or the pharmaceutical industry.

They will have a record of delivering high quality scientific output and publications commensurate with their stage of career and indicative of a trajectory of growing achievement and be expected to build a research team through securing external funding. The successful applicant will establish fruitful research partnerships with colleagues within the University and externally.

In teaching, applicants will contribute to the teaching programmes in science, medicine and dentistry at UG and PGT level and should demonstrate a capacity to deliver excellence in education at both levels, preferably evidenced by some previous experience in teaching delivery.

Public engagement with research is embedded within the IMS and appointees will be expected to contribute and expand the current portfolio.

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KEY RESPONSIBILITIES

Lectureship in Medical Sciences

- Build a funded programme of independent research.
- Publish research in high quality, influential journals.
- Win external, peer reviewed grants.
- Plan, design, develop and deliver teaching at undergraduate and postgraduate levels as appropriate.
- Contribute to wider educational activities in assessment, course or programme organisation, personal tutor or other roles.
- Provide research leadership to own research group and collaborate across the School's portfolio of research.
- Act as supervisor to research students and undertake UG and PG supervision as required.
- Establish links with colleagues in the IMS, the Rowett Institute and across the School.
- Act as a Personal Tutor.
- Establish links with NHS clinicians to promote new research collaborations.
- Build other external research or teaching collaborations.
- In the longer term, initiate, develop and grow a research group with an international reputation.

CANDIDATE BACKGROUND

We seek outstanding research scientists who wish to establish a research programme and be active contributors to the education of students within the collaborative and vibrant environment of the IMS

The vision for this post is to enhance medical biosciences research and teaching at the interface with one or more of core research strengths and to contribute to our vibrant teaching teams. Research areas include host-pathogen interactions, metabolic health, diabetes, obesity, cardio-vascular research, neuroscience and regenerative medicine, and to strengthen these areas. Teaching programmes include Biomedical Sciences, Physiology, Pharmacology, Neuroscience, Anatomy, Immunology, Sports Science and MSci with Industrial Placement.

Candidates must have a PhD in a medical or biological science with a proven ability to attract funding commensurate with career stage, publish papers in high quality journals, make collaborative research links across disciplines and evidence research excellence commensurate with their stage of career. Experience of some teaching and assessment at undergraduate and postgraduate level is essential; research student supervision would be an advantage. Within their qualifications, applicants may have expertise in Neuroscience, Genetics, Immunology, Biochemistry, Genetics/Genomics, Sports Science, Pharmacology, Physiology,

Terms of Appointment

Salary will be at the appropriate point on the Grade 7 salary scale (42,149 – £50,296 per annum) and negotiable with placement according to qualifications and experience.

A research presentation will be part of the selection process.

Any appointment will be made subject to satisfactory references and a 3 year 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.

The candidate appointed to this post may be eligible for homeworking on a regular or permanent basis. For more information please refer to our Homeworking Policy. Please note that where permanent homeworking is approved there will still be a requirement to work at a University location from time to time, albeit on an infrequent basis.

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 7
£42,149 - £50,296

HOURS OF WORK:
37.5 hours per week

CONTRACT TYPE:
Substantive

LOCATION:
Aberdeen

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PERSON SPECIFICATION

	ESSENTIAL	DESIRABLE
Education/Qualifications Academic, technical and professional education and training	• PhD in a medical or biological science	• *A Higher Education teaching qualification commensurate with stage of career*
Work and Other relevant experience (including training) e.g. Specialist knowledge, levels of experience, supervisory experience, research	• *Experience in a field of medical sciences research relevant to the core research strengths of the School of Medicine, Medical Sciences and Nutrition.* • *Experience of teaching Undergraduate and Postgraduate students commensurate with career stage* • *A developing reputation in their field of research commensurate with career stage* • *Enthusiasm and commitment to developing teaching at UG and PGT levels* • *Interest in developing students throughout their UG and PGT careers in science, medicine, and dentistry.* • *A record in attracting research funding commensurate with career stage* • *Ability to make collaborative research links including with NHS colleagues* • *Evidence of research output in the form of high-quality peer reviewed publications commensurate with career stage and indicative of a trajectory of growing achievement*	• *Experience of supervision of higher degrees*
Personal qualities and abilities e.g. initiative, leadership, ability to work on own or with others, communication skills	• *Excellent written and oral communication skills* • *Ability to work independently and as part of a team* • *Ability to think independently* • *Excellent record keeping* • *Ability to plan work load, forward plan and work to tight deadlines*	• *A highly motivated, ambitious individual* • *Evidence of independent writing of papers and reports* • *Demonstration of good organisational and time-management skills*
Other e.g. special circumstances (if any) appropriate to the role such as unsocial hours, travelling, Gaelic language requirements etc.	• *Evidence of research innovation.* • *Have a high level of analytical capability and an enquiring, critical approach to work* • *Aptitude for teaching* • *Excellent written and verbal communication skills* • *Good interpersonal skills with the ability to interact constructively with a wide range of colleagues* • *Proven organisational abilities, including evidence of effective time-management and negotiating skills.* • *Ability to work as part of a team as well as on own* • *Ability to think creatively and innovatively and impart enthusiasm for subject*	

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open to all and dedicated to the pursuit of truth in the service of others

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 the achievements above. 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.

In 2017 we received the Queen's Anniversary Prize, awarded to recognise the world-class excellence in innovation and practical benefit to people and society. The University was given this award for health service research leading to improvements in academic and clinical practice and delivery of health care.

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 students[1] and have been named 32nd in the world for International Outlook[2]. 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.

[1] Times Higher Education World University Rankings 2021
[2] QS World University Rankings 2021

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.

International

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

Interdisciplinary

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

Sustainable

We understand and nurture our environment, and take care of our resources, including our people and our finance. 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.

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, 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 Sciences https://www.abdn.ac.uk/iemds/
- The Institute of Dentistry https://www.abdn.ac.uk/dental/

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 and a growing suite of master's programmes for professional development.

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/acdc/)
- 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/)

Teaching

Aberdeen has a global reputation for academic excellence both in the delivery of medical and medical sciences education and in medical education research and development. The suite of Medical Science undergraduate honours programmes is highly regarded and delivered to more than 700 students. The existing MBChB programme is currently ranked first in Scotland and is delivered to almost 1000 students. An innovative 4-year graduate entry dental programme is delivered to 80 students. The School also delivers a range of healthcare and medical science postgraduate programmes delivered on-line, face to face or by blended approaches and runs an award-winning widening access pre-medical access programme (Gateway2Medicine).

The BSc programmes are delivered in a suite of practical labs on the Old Aberdeen campus and in the later years on the Foresterhill campus. Many of the Honours projects are carried out within the Institute of Medical Sciences in working research laboratories. A new purpose-built suite of teaching laboratories and ancillary spaces is under construction, scheduled to open for academic session 2021/22.

The healthcare programmes are delivered in a dispersed campus model, where we maintain a supportive and creative environment for the development and maintenance of a positive teaching and learning culture and the provision of an excellent student experience.

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, occupied in March 2016, whose staff undertakes nutrition research to help improve people's lives through the prevention of ill-health and disease. Their new £40M building has provided the University of Aberdeen with a facility with unique capabilities for human nutrition and metabolic research. 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 2023.

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ABERDEEN AND ABERDEENSHIRE

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 business 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 www.abdn.ac.uk/staffnet/working-here/flexible-working--5607

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 if 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 **31 October 2021**

Should you wish to make an informal enquiry please contact:

Professor Bhattacharya, Head of School of Medicine, Medical Sciences and Nutrition (e-mail: s.bhattacharya@abdn.ac.uk) or Professor Paul Fowler, Director of the Institute of Medical Sciences (e-mail: p.a.fowler@abdn.ac.uk) or Professor Gordon McEwan (e-mail: g.t.a.mcewan@abdn.ac.uk).

Please do not send application forms or CVs to Professor Bhattacharya, Professor Fowler or Professor McEwan.

Please quote reference number IMS217A on all correspondence