The University of Dundee is committed to nurturing scientific talent and maximising its impact. We are currently seeking individuals with outstanding scientific credentials and exciting plans to become part of our thriving multi-disciplinary research community. Principal Investigator positions from lecturer to professorial level are now available in our new Discovery Centre for Translational and Interdisciplinary Research.

We provide a fast-paced, collegiate and supportive environment where Principal Investigators can access to state-of-the-art technologies and collaborative opportunities in a single integrated complex.

The University is home to pre-eminent researchers from around the world working at the cutting-edge, across disciplines and consistently producing highly-cited papers in their fields.

Dundee is situated in a spectacular Scottish landscape, framed by the sea and surrounded by rivers, lochs and mountains. The city has a dynamic, international outlook and a reputation as a crucible for pioneering life sciences research.

To discuss potential opportunities, please contact me to find out more about our research, our exceptional facilities, and what it’s like to live and work in Dundee.

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Life Sciences at the University of Dundee – the facts

UK’s No.1 University for Biological Sciences
Research Excellence Framework 2014

Top 10 in World
Citations per paper
QS World University Rankings for Biological Sciences (2013 - 2015)

302 Papers per year
Average (2010 – 2015)

> 60 Nationalities
Life Sciences Staff & Students

> 80 Research Groups
Across 11 Research Divisions

> 200 PhD Students
International Student Barometer (2016)

> 900 Research & Support Staff
2016 FDQ Students

> 60
World’s Top
Scotland’s No.1

THE No.1 in Scotland for the 4th year

Times Higher Education, Student Experience Survey 2010 - 2015
The Discovery Centre for Translational and Interdisciplinary Research opened on the 1st October 2014 as the newest building of the Life Sciences Research complex. Research activities within the Centre are reflected in the name:

**Discovery**
From the discoveries that will be made and our ties to Dundee, the city of Discovery.

**Translational**
Moving blue skies basic science towards societal benefit.

**Interdisciplinary**
Bringing together biology with chemistry, with physics, and with computer science.

The aim of the Discovery Centre is to bring scientists together in an environment that facilitates scientific innovation and discovery.

The Centre is an integrated part of the School of Life Sciences and we are now seeking to recruit the best research scientists to join us in this exciting environment.

To facilitate interactions between scientists from different disciplines and research groups, a key part of the brief for the new Centre was to create interactive spaces. A new enclosed atrium ‘Street’ between the Discovery Centre and the existing College of Life Sciences complex is a place for meeting, collaboration and networking. It incorporates a café, informal breakout spaces and digital screens for data streaming.

### Existing activities in the Discovery Centre

#### Quantitative Proteomics

The mezzanine floor houses the interdisciplinary research team of the Laboratory for Quantitative Proteomics (LQP), led by Angus Lamond FRS. LQP combines cell biologists, mass spectrometrists, data scientists and software developers, working in an integrated project to develop new technology for high-throughput detection and analysis of proteins in human cells, model organisms and pathogens.

A key component of the project includes developing software tools for the efficient management, visualisation and sharing of proteomics ‘big data’, including the integration of these data with other forms of genomics and biological data. Thanks to the scale of mass spectrometry instrumentation (9 Thermo Q-Exactive and 2 Fusion MS instruments) and associated chromatography, sample processing and computational equipment, together with the bespoke data management infrastructure, the LQP can undertake large-scale proteomics projects that would not otherwise be possible. For example, pioneering the multidimensional analysis of proteomes, including the system-wide analysis of multi-protein complexes. These technologies have great power in both fundamental biology (understanding biological regulation and disease mechanisms) and in translational science (for example in improving the identification of drug model(s) of action and toxicological prediction). Advances made in the experimental LQP are rolled out to the academic community through the co-located Dundee ‘Fingerprints Proteomics Facility’ that, with a further 10 high-end mass spectrometry platforms, provides advanced turnkey proteomics solutions. Proximity and access to one of the largest and most advanced proteomics capabilities in the world is a major bonus for new faculty.

#### Computational Biology

On the second floor an open plan, high quality ‘dry’ laboratory has been created for our new Division of Computational Biology to maximize collaboration between the different research groups and cope with the large data handling requirements of modern life sciences research. Coalesced together in the Discovery Centre is this interdisciplinary group of biophysicists, bioinformaticians, software developers and data analysts feed off each other’s expertise and, at the same time, sit at the heart of a huge Life Science experimental centre. Our strategy is to remove artificial barriers between the physical and biological sciences to maximise scientific discovery. Members of the division either have their own ‘wet-lab’ or collaborate closely with ‘wet-lab’ experimentalists or clinicians to extract maximum value from experimental data that informs the development of predictive algorithms and models that may be tested experimentally. The support of our Data Analysis Group and opportunities for collaboration with informaticians and physicists is a powerful attractant for new faculty.

#### Drug Discovery

On the first floor, our Drug Discovery Unit contains the full range of disciplines (compound management and screening, medicinal and computational chemistry, structural biology, pharmacokinetics and in vitro and in vivo disease model efficacy) required to produce novel drug leads and preclinical drug candidates across a wide range of therapeutic areas under strong industry-experienced leadership. The Unit translates innovative scientific discoveries from both Dundee and the wider academic sector to deliver significantly de-risked drug targets that can then be advanced into the clinic by pharmaceutical industry partners, product development partnerships or through the creation of new spin-out companies. The small-molecule translational opportunities we can offer to new faculty are simply unparalleled anywhere.
New high quality laboratory and office space in the Discovery Centre

The top floor of the Discovery Centre is now open for the recruitment of talented Principal Investigators. Fully fitted laboratory facilities are available with associated tissue culture, cold room and equipment room facilities. There are laboratory facilities for up to 51 researchers within the open plan area. There are also seminar and meeting rooms adjacent to the lab and offices.
Discovery Centre Level 3
Open for recruitment
The University of Dundee is one of the leading universities in Europe for research in Life Sciences. Dundee was the top-ranked university in the UK for Biological Sciences in the recent 2014 UK Government Research Excellence Framework. On a global scale, the 2015 QS World University Rankings place Dundee 9th in the world and 3rd in Europe with respect to citations per paper in Biological Sciences. With over 900 staff from over 60 countries, Life Sciences at the University of Dundee is internationally recognised as one of the fastest growing and most productive research institutes in Europe. With molecular cell biology as a significant theme, expertise ranges from developmental biology to medicinal chemistry using animal, plant and microbial systems, with impact in many health and environmental contexts. The School is organized into 11 Research Groups and Divisions:

- Biological Chemistry and Drug Discovery
- Cell and Developmental Biology
- Cell Signalling and Immunology
- Computational Biology
- Gene Regulation and Expression
- Geomicrobiology Group
- Molecular Medicine
- Molecular Microbiology
- MRC Protein Phosphorylation and Ubiquitylation Unit
- Nucleic Acid Structure Research Group
- Plant Sciences

The entire Life Sciences complex is in open-plan format, stimulating collaboration between groups and facilitating technology transfer. By locating in the Discovery Centre, you would be joining our current 81 principal investigators in a collaborative, and innovative environment that nurtures scientific talent.

The leadership and expertise of established scientists who have achieved international acclaim includes: 9 Fellows of the Royal Society, 25 Fellows of the Royal Society of Edinburgh, 12 members of EMBO, 11 Fellows of the Academy of Medical Sciences plus a cohort of dynamic young scientists and rising stars in their fields. This critical mass of research expertise makes Dundee one of the most interdisciplinary, collaborative research hubs in Europe and at the cutting-edge of the development and provision of life science technologies.

What we can offer

In addition to high quality laboratory and office space, Life Sciences is committed to providing a happy, dynamic and safe work environment for all of its staff and students. To help staff negotiate the various transitions and milestones in their careers we have a number of support schemes in place and are always looking to improve our quality and duty of care to our community. The benefits we can provide principal investigators include:

- **Technology platforms and support**
  We strive to ensure that principal investigators have access to the most advanced technologies to accelerate discovery. These include mass-spectrometry-based proteomics, x-ray crystallography, fluorescence microscopy, flow cytometry, deep sequencing, compound and siRNA screening and high performance computing.

- **Tenure Track and Mentoring scheme**
  We offer a very generous tenure-track package to early career research fellows setting up their first independent research group and provide active mentoring during this key career phase.

- **Flexible Dependent Care Grant**
  Encourages the professional development of academics working in Life Sciences who have primary carer responsibilities.

- **Interdisciplinary Research Fund**
  Supports interdisciplinary initiatives that enhance and develop the strongest life sciences related research across the University of Dundee.

- **Bridging Funds**
  Provides flexible and reactive support to young investigators and strategic funding for research that will underpin future fellowship/research grant proposals.

- **PhD programmes**
  Our PhD programmes offer studentships and scholarships to UK, EU and overseas applicants through a variety of funding mechanisms from MRC, BBSRC, CRUK, Wellcome Trust, A-Star (Singapore), CAPES (Brazil) and from the University itself.

- **Fully supported administration and lab management**
  Lab Managers provide technical support, maintain equipment, run the purchasing system, deliver staff training and implement health & safety policies; our stores provide same-day delivery to the bench; Divisional secretaries co-ordinate the administrative functions that underpin research activities; and senior administrators assist with the implementation of school strategy. We also benefit from a range of support staff from University Human Resources, Research & Innovation Services and Finance, which ensures their support is focused on our research needs.

Further information on what we can offer can be found on our website: [www.lifesci.dundee.ac.uk/join-life-sciences-dundee](http://www.lifesci.dundee.ac.uk/join-life-sciences-dundee)
Dundee’s cultural life is flourishing right now. Dundee has become the UK’s first UNESCO City of Design, a prestigious global award that recognises the huge contribution the city has made to design and innovation worldwide. This innovation continues through Dundee’s £1 billion, 30-year masterplan to design an open, inclusive city of the future. At the heart of this plan is the creation of V&A Museum of Design, Dundee, an impressive new centre of 21st century design for Scotland and the world. The city is also home to the hugely successful Dundee Contemporary Arts, Dundee Rep Theatre, McManus Art Gallery and Museum and Wasp Studios.

The city also has a vibrant nightlife, with a mix of mainstream and alternative clubs and live music venues. Theatres, art-house cinema, restaurants, galleries, bars, boutiques and craft shops are all within 5 minutes’ walk, and on our doorstep Perth Road is full of great pubs.

Set on the banks of the River Tay and close to the sea, Dundee also provides a stunning location for a host of sporting and outdoor activities. As well as the University’s own sports facilities, there are famous golf courses nearby, and an hour’s drive will take you to magnificent mountains perfect for climbing, hiking, skiing and snowboarding.

Dundee’s setting is probably more extraordinary than any other city in Scotland or Britain. It is about ideal, as ludicrously ideal, as any city setting could be.

Stephen Fry, Comedian, Film Star and Former Rector of the University of Dundee

About the City
Being at the heart of Scotland’s road and rail network puts spectacular scenery, skiing, championship golf, mountain climbing and sailing within easy reach as well as the major cities of Edinburgh and Glasgow.

Dundee has direct flights to London and Scotland’s four main international airports operate major airlines such as British Airways, Air France/KLM, Unired, Delta, Alitalia, Lufthansa, Qatar and Turkish Airlines and low cost airlines like EasyJet, Ryanair, German Wings, Flybe and Jet2.com. This makes it easy to get to all the major centres of the UK, Europe, the USA, the Middle East and beyond.

www.dundee.ac.uk/general/travel
Contact

Further information about Life Sciences can be found at www.lifesci.dundee.ac.uk and additional information about the Discovery Centre specifically can be found at www.lifesci.dundee.ac.uk/discoverycentre/

If you are thinking of joining us and would like to discuss this further please do get in touch:

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Images credit: Lewis Houghton, Ben Kirkpatrick, Keith Hunter and Ross Fraser McLean.

The University of Dundee is committed to equal opportunities and welcomes applications from all sections of the community.

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