

## THE POST

**College/Service:** Living Systems Institute

**Post:** Associate Professor/Professor in Living Systems

**Reference No:** P01008

**Grade:** H/Professorial Scale

### Job Description

The Living Systems Institute (LSI) is a major new initiative by the University of Exeter designed to promote interdisciplinary research that transcends the boundaries of mathematics, engineering and the biological, medical and physical sciences. Its mission is to analyse living cells and organisms as integrated systems, with the aim of unravelling how diseases disrupt biological processes at the molecular, cellular and organismal level.

The award winning £52m LSI building was opened in autumn 2016 and currently houses 23 Principal Investigators drawn both from newly recruited staff from leading institutions around the world (<https://www.exeter.ac.uk/livingsystems/team/faculty/>) and existing University of Exeter staff. Following our initial round of recruitment, we have established expertise and resources for the analysis of living systems at the nanoscale, using HD-exchange mass spectrometry, X-ray crystallography, cryo-electron-microscopy and nanophotonics. We also have significant strength in quantitative and computational approaches, through the Wellcome Trust ISSF funded Centre for Biomedical Modelling and Analysis (<https://www.exeter.ac.uk/cbma/>), and the EPSRC funded Centre for Predictive Modelling in Healthcare (<http://emps.exeter.ac.uk/mathematics/research/pmh/>), both of which are hosted within the LSI.

Our research focuses on a number of themes including host-microbial interactions, neurodegeneration and behaviour, topics that align with clinical research strengths in diabetes and metabolic disorders, dementia and neurodevelopmental disorders in the Medical School (<https://medicine.exeter.ac.uk/research/biomedicalclinical/>) as well as with research in the Mood Disorders Centre (<http://www.exeter.ac.uk/mooddisorders/>).

### Summary of post

This post is primarily to support research and teaching activities in the area of Living System. The post holder will be an innovative researcher with an outstanding and current record of research funding and international quality publications.

Whilst working predominantly in the LSI, the postholder will be a member of one of the University of Exeter's STEMM Colleges: the University of Exeter Medical School; the College of Life and Environmental Sciences; or the College of Engineering.

### Associate Professor

#### Job Description

The full job description (role profile) for Senior Lecturer (Education and Research) posts can be found on our website at <http://www.exeter.ac.uk/staff/employment/academicroles/youteachandresearch>. This summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility.

### **Research and Scholarship**

1. Support the development and implementation of LSI research strategy.

2. Lead and co-ordinate research activity.
3. Manage research and other collaborative partnerships with other educational institutions or other bodies.
4. Lead bids for research, consultancy and other additional funds.
5. Write publications of the appropriate defined standard or disseminate research findings using media appropriate to the discipline.
6. Conduct research into learning and teaching methodologies and disseminate best practice within the Institution and externally.
7. Develop and promote the use of innovative assessment methods.

#### **Teaching and Learning Support**

1. Oversee the design and development of curricula as needed.
2. Design, develop and deliver a range of programmes of study at various levels.
3. Lead the development and clarification of academic standards and quality for the subject area
4. Working closely with the Associate Dean for Education in the development and implementation of teaching and learning strategy.
5. Make a significant contribution to the development of academic policies across the Institution.

#### **Liaison and Networking**

1. Lead and develop internal and external networks to foster collaboration and share information and ideas and to promote the subject and the Institution.
2. Participate in internal and external networks in relation to research and research funding. Teaching and teaching funding, and consultancy.
3. Promote and market the work of the College in the subject area both nationally and internationally.
4. Contribute to the enhancement of research quality and thinking in the field by being involved in quality assurance and other external decision making bodies.

#### **Managing people and managing resources**

1. Act as line manager for matters relating to the employment of staff and ensuring the work is allocated fairly, according to skills and capacity.
2. Carry out the role of an Academic Lead i.e. sustaining a shared sense of direction for the discipline and a shared participation in the University and Colleges' success through engagement with University and College strategies ensuring decisions are taken forward effectively by all staff they lead enabling, supporting and celebrating individual achievement.
3. Take overall responsibility for the organising and deployment of resources within own areas of responsibility

#### **Person Specification**

1. Be a leading authority with an international reputation.
2. Possess in depth knowledge of specialism to enable the development of new knowledge, innovation and understanding in the field.
3. Possess a thorough understanding of institutional management systems and the wider higher education environment, including equal opportunities issues.
4. Have a strong record in attracting research and/or scholarship funding.
5. Have an active and supportive approach to inter-disciplinary and multi-disciplinary research that will help to foster interactions and links both within the University and externally.

## **Professor**

### **Job Description**

#### **Research**

1. Support the development and implementation of the LSI research strategy and forging strong links between the LSI and associated disciplines.
2. Lead and co-ordinate research activity.
3. Manage research and other collaborative partnerships with other educational institutions or other bodies.
4. Lead bids for research, consultancy and other additional funds.
5. Write publications of the appropriate defined standard or disseminate research findings using media appropriate to the discipline.
6. Lead and develop internal and external networks to foster collaboration and share information and ideas and to promote the subject and the Institution.
7. Contribute to the enhancement of research quality and thinking in the field by being involved in quality assurance and other external decision making bodies.
8. Lead the development of new and creative approaches in responding to research challenges.
9. Plan and implement research projects and monitor progress to ensure the achievement of financial and research objectives.

#### **Communication, Administration and Management**

1. Be routinely involved in complex and important negotiations internally and with external bodies, particularly in relation to research, research funding and consultancy.
2. Participate in Institutional decision making and governance.
3. Participate in internal and external networks in relation to research and research funding.
4. Promote and market the work of the LSI and the University of Exeter nationally and internationally.
5. Seek diversity of funding by engaging with industry and/or other partners.
6. Exercise academic leadership for all subject area activities - teaching and/or research, as appropriate.
7. Act as line manager for matters relating to the employment of staff and ensuring the work is allocated fairly, according to skills and capacity.
8. Appraise and advise staff on personal and career development plans and mentor research activity.
9. Develop and communicate a clear vision of the unit's strategic direction.
10. Promote a collegiate approach and develop team spirit and team coherence.
11. Foster inter-disciplinary team working.
12. Determine the allocation of resources within own area of responsibility.
13. Take overall responsibility for the organising and deployment of resources within own areas of responsibility.

#### **Person Specification**

1. Be a leading academic authority with an international reputation.
2. Demonstrate clear evidence of world leading and international excellence in published research.
3. Have a strong track record in attracting research and/or scholarship funding.
4. Have an active and supportive approach to inter-disciplinary and multi-disciplinary research that will help to foster interactions and links both within the University and externally and enable the development of new knowledge, innovation and understanding in the field.
5. Possess a thorough understanding of institutional management systems and the wider higher education environment, including equal opportunities issues.
6. Proven ability to deliver high quality teaching at undergraduate and postgraduate levels, including the development of new modules and participation in team-taught modules as appropriate
7. Proven ability to attract and supervise PhD and other research students and contribute to general research activity.
8. Commitment to demonstrating the wider impact of research.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility.

**Terms & Conditions**

Our Terms and Conditions of Employment can be viewed [here](#).

**Further Information**

Please see our [website](#) for further information on working at the University of Exeter.