

## THE POST

<b>College/Service:</b>	<b>College of Engineering, Mathematics and Physical Sciences</b>
<b>Post:</b>	<b>Professor in Statistical Science</b>
<b>Reference No:</b>	<b>P20375</b>
<b>Reporting To:</b>	<b>Head of Mathematics</b>

## Job Description

### **Main purpose of the job:**

The above full-time permanent post is available from 1 August 2018 in the College of Engineering, Mathematics, and Physical Sciences.

### **Summary of post**

Statistical Science at Exeter is currently undergoing an exciting period of expansion with the opportunity to now recruit an outstanding professor in statistics. The post is intended to provide leadership in research and teaching in statistics within the Department of Mathematics. The post holder will be an innovative researcher with a strong, and current, record of research funding and international quality publications. The post holder will also have proven ability to deliver high quality teaching at undergraduate and postgraduate levels.

Statistical science at Exeter is recognised for developing and applying methodological research to some of today's most important societal challenges, including climate change, weather forecasting, air quality, global health, and the spread of infectious disease. Research interests of members of the group include:

- Environmental modelling, with particular expertise in weather, climate and air pollution;
- Spatial epidemiology;
- Medical statistics;
- Statistical modelling in healthcare;
- Statistical computing;
- Uncertainty quantification in complex numerical models;
- Smoothing and functional data;
- Bayesian methods, including hierarchical models and the foundations of Bayesian statistics.

The post holder is expected to either strengthen the research base in these areas or bring expertise in complementary fields.

The University of Exeter provides an excellent environment for interdisciplinary research. Statistical Science currently has strong working collaborations with Exeter Climate Systems, the Living Systems Institute, the university Medical School, The European Centre for Environment & Human Health, The Environment and Sustainability Institute, the EPSRC Centre for Predictive Modelling in Healthcare and the new Data Science Institute.

For more information, please visit <http://emps.exeter.ac.uk/mathematics/research/statistical-science/> or contact the Head of Statistical Science, Prof. David B. Stephenson ([d.b.stephenson@exeter.ac.uk](mailto:d.b.stephenson@exeter.ac.uk)).

## **Main duties**

### **Research**

1. Support the development and implementation of the College research strategy.
2. Lead and co-ordinate research activity in statistics at Exeter.
3. Manage research and collaborative partnerships with educational institutions and other bodies.
4. Lead bids for research, consultancy and other additional funds.

5. Write publications of the appropriate 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 College in the subject area both nationally and internationally.
5. Exercise academic leadership for all subject area activities - teaching and/or research, as appropriate.
6. Act as line manager for matters relating to the employment of staff and ensuring the work is allocated fairly, according to skills and capacity.
7. Appraise and advise staff on personal and career development plans and mentor research activity within the discipline/College.
8. Develop and communicate a clear vision of the unit's strategic direction.
9. Promote a collegiate approach and develop team spirit and team coherence.
10. Foster inter-disciplinary team working.
11. Determine the allocation of resources within own area of responsibility.
12. Take overall responsibility for the organising and deployment of resources within own areas of responsibility.

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.

### **Person Specification**

1. Be a leading internationally-renowned authority in a field within statistical science;
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. Possess a thorough understanding of institutional management systems and the wider higher education environment, including equal opportunities issues;
5. 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;
6. Proven ability to attract and supervise PhD and other research students and contribute to general research activity;
7. Commitment to demonstrating the wider impact of research.

### **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.