Sessional Lecturer in Applied Statistics

The University of Worcester is seeking to appoint sessional lecturers to provide teaching and learning support in applied statistics.

You would be joining a small team of staff who deliver teaching on a joint honours mathematics undergraduate degree course and provide mathematical and statistical support to students and colleagues in a range of disciplines across the university.

The joint honours degrees in mathematics include Biology and Mathematics, Computing and Mathematics, Education Studies and Mathematics, Geography and Mathematics, Physical Education and Mathematics, and Psychology and Mathematics. The mathematics and statistics components of these courses have been designed to provide a practice-based course with a focus on solving real problems and analysing real data sets. However, the course also provides a sound theoretical foundation in core areas of mathematics and statistics as well as developing knowledge in more advanced topics. Extensive use is made of mathematics and statistics software including Matlab, Python, R and SPSS.

Applications are particularly encouraged from those with experience of:

• Teaching of applied statistics to level 5 and 6 students;

• Statistical modelling including multiple regression, linear models, generalised linear models, ANOVA, and non-parametric methods;

• Multivariate data analysis including visualisation of multivariate data, principal components analysis, factor analysis, cluster analysis, and multidimensional scaling;

• Use of R, SPSS, or similar software packages;

• Teaching both theoretical and practical aspects of mathematics or statistics, including teaching through problem solving;

• Providing statistical support to students and colleagues across a range of academic disciplines.

NB. If you are successful at interview you will be invited to join a pool of sessional lecturers and we will contact you if suitable work becomes available. We are not able to guarantee employment as it will be subject to student numbers. The number of hours available might only be a few hours per week. If you have any queries regarding this please contact us on 01905 855170 or discuss it with us at interview.

Selection Process:

Shortlisted candidates will be asked to give a 15 minute presentation to a small panel, on part of a topic in applied statistics that would be appropriate for a class of Year 2 or Year 3 undergraduate mathematics students.

Closing date: Wednesday 30 Aug 2017

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Job details

Salary
    £42.18 an hour, including preparation, marking and course administration and £7.60 an hour holiday pay
Hours
    To be confirmed
Start
    By agreement
Duration
    Temporary
Responsible to
    Deputy Head of Institute of Science and the Environment
Responsible for
    N/A
Interview date
    Interviews to be held on wc 11th September 2017

Institute of Science and the Environment

Explore the Institute of Science and the Environment

"The Institute's acclaimed research has a common thread: our belief that science should be centred around its impact on people"
Professor John Newbury, Head of Institute

Meet the team

Background

N/A

Main duties

The precise duties will depend on the nature of the work required which may include teaching all or part of a module, providing in-class learning support for other lecturers, providing one-to-one learning support to students outside of class and/or marking of student work. This may require you to do one or more of the following:

1. Prepare for teaching by developing an understanding of the content, learning outcomes and modes of delivery for the relevant sessions. This may involve research and reading in the subject area and/or adapting existing learning materials.

2. Prepare course materials, including setting assignments, producing reading lists, and module outlines and learning materials, and ensuring that information is available to students in advance of the course and taught sessions.

3. Teach sessions by lectures, tutorials, seminars and any other relevant form of learning method.

4. Provide learning support to the module tutor in class.

5. Provide one-to-one learning support outside of classes.

6. Undertake marking, and other forms of assessment; ensure work is moderated and grades submitted, and provide assignments for reassessment. This may include the supervision and assessment of final year mathematics or statistics projects.

7. Ensure regular contact with the relevant Module/Course Leader to keep them informed of progress through the semester.

8. Undertake other administrative duties related to the teaching.

*Maintain personal and professional development to meet the changing demands of the job; participate in appropriate training activities and encourage and support staff in their development and training.

*Take steps to ensure and enhance personal health, safety and well being and that of other staff and students.

*Carry out these duties in a manner that promotes equality of opportunity and supports diversity and inclusion, and takes into account the University's commitment to environmentally sustainable ways of working.

Person specification

Please provide evidence of how you meet each of the essential criteria.

Essential Criteria:

1. An honours degree or equivalent in Mathematics or Statistics or a related subject.

2. Experience of teaching within Higher Education, or experience of teaching mathematics at A Level or equivalent, or other training at a similar level.

3. The ability to communicate confidently and clearly with a wide range of people, both orally and in writing.

4. The ability to work well in a team context when required.

5. Ability to relate to students with diverse backgrounds, ages and experience.

Desirable Criteria:

1. Experience in the use of mathematical or statistical software.

2. A higher degree (or near to completion) in a related area.

3. Experience of e-learning using a Virtual Learning Environment.

4. Have or working towards an appropriate teaching qualification.

5. Evidence of providing statistical and mathematical support across a range of academic disciplines.

Applications from Non EEA Workers:

Prospective applicants are advised to ensure that they are eligible to work in the UK without restriction.

Prospective applicants in points-based system immigration routes should assess their circumstances against the published criteria, which are set out on the GOV.UK website at www.gov.uk/browse/visas-immigration.

Visit www.naric.org.uk/visasandnationality for more information on how you can use a qualification from outside the UK to meet the requirements of the immigration rules.

Unspent convictions, cautions and bind-overs

The University is strongly committed to the fair treatment of its staff and potential staff, regardless of race, gender, religion, sexual orientation, responsibility for dependants, age, physical/mental disability or offending background.

In line with the University's policy on the Recruitment of People with a Criminal Record, shortlisted candidates are required to provide information of any unspent convictions, cautions and bind-overs. Applicants are advised to seek independent advice if there is any doubt about the status of a previous conviction, caution or bind-over. Disclosures will only be considered at the point when an offer of employment is made. The existence of a criminal record will not in itself prevent you from gaining employment.

This is a description of the job as it is presently constituted. This job description is intended to enable a flexible approach to be offered working across the University as required. It is subject to review and amendment in the light of changing needs of the University and to provide appropriate development opportunities. Members of staff are expected to participate fully in discussions about changing requirements and it is the University's aim to reach agreement to reasonable change. If agreement is not possible, it reserves the right to require changes to the job description after consultation with the individual concerned.