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| Last updated: | <date> | Job Evaluation: | <date> | JE Reference: | <reference> |

**JOB DESCRIPTION**

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| Post title: | **Lecturer in Mathematical Sciences** | | |
| School/Department: | Mathematical Sciences | | |
| Faculty/Directorate: | Social Sciences | | |
| Career pathway: | Education, Research and Enterprise (ERE) | Level: | 5 |
| Job family (\*ERE): | Balanced portfolio | | |
| Post title of Line Manager: | Head of Mathematical Sciences | | |
| Post title(s) responsible for: | Research staff (levels 4-5) and students, and others assigned by Head of Mathematical Sciences. | | |
| Post base: | Office-based (see job hazard analysis) | | |

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| Job purpose |
| To contribute to the delivery of high quality teaching in actuarial and financial mathematics, developing BSc and MSc programmes as required. To undertake administrative and leadership duties within Mathematical Sciences, particularly organising events related to finance and actuarial careers and liaising with external partners such as the Institute and Faculty of Actuaries on matters related to exemptions and accreditations.  To pursue research in one or more of research groups within Mathematical Sciences, particularly in actuarial mathematics or financial mathematics or a closely related discipline. To enhance the research profile of Mathematical Sciences through dissemination of excellent research at international meetings and through obtaining research funding. |

| Key accountabilities/primary responsibilities | | % Time |
| --- | --- | --- |
|  | Carry out internationally excellent research activity in Mathematical Sciences. Publication of results in leading journals is required, together with applications for research funding. | 40 % |
|  | Deliver high quality teaching of modules, including the associated assessment. Development of the teaching programme within Mathematical Sciences. | 30 % |
|  | Supervise undergraduate and MSc student projects and case studies. | 10 % |
|  | Contribution to the efficient management and administration of Mathematical Sciences by performing personal administrative duties as allocated. | 15 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 5 % |

| Internal and external relationships |
| --- |
| The postholder will be a member of the School (Mathematical Sciences) Forum, Examination Board and of such School and/or Faculty committees relevant to administrative duties. The postholder will have the opportunity to be part of research centres relevant to their research interests, such as the Southampton Statistical Sciences Research Institute (S3RI). The University of Southampton is a member of the Alan Turing Institute, and the postholder will have opportunities to engage with ATI.  New appointees will be assigned a senior colleague to guide their development and aid their integration into the School, Faculty and University.  Research priorities will be agreed within the strategic framework of Mathematical Sciences.  Teaching and administrative duties will be allocated by the Head of Mathematical Sciences under the advice of Heads of Groups and other members of the Mathematical Sciences School Board (MSSB). |

**PERSON SPECIFICATION**

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| Criteria | Essential | Desirable |
| **Qualifications, knowledge and experience** | PhD in Mathematics/Financial Mathematics/Actuarial Science or related area  Excellence in research and potential for research leadership in Mathematical Sciences  Growing and consistent national reputation in research.  Ability or potential to deliver high-quality teaching in financial and actuarial mathematics, including the supervision of MSc students | Postdoctoral research experience.  Experience of teaching at undergraduate and/or postgraduate level  Teaching qualification (PCAP or equivalent)  Membership of Higher Education Academy |
| **Other skills and** [**Our Southampton Behaviours**](https://intranet.soton.ac.uk/sites/strategy/embeddingcollegiality/SitePages/Home.aspx) | Able to apply and actively promote equality, diversity and inclusion principles to the responsibilities of the role. | ­\*Demonstrate the Southampton Behaviours and work with colleagues to embed them as a way of working within the team. |
| **Management and teamwork** | Ability to provide leadership in relevant areas of research  Proven ability or potential to manage and deliver own modules and team-taught modules.  Proven ability or potential to coach and support students/tutorial groups  Ability to work in a team |  |
| **Planning and organising** | Ability to develop and lead a programme of research of international quality leading to publications in major journals  Ability or potential to develop and manage research grant applications to support innovative research  Proven ability or potential in the design of modules, curriculum development and new teaching approaches within the School.  Ability to plan and deliver modules effectively |  |
| **Problem solving and initiative** |  | Ability to seek opportunities to develop joint research programmes with other disciplines or with industry |
| **Communicating and influencing** | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience.  Track record of presenting research results at group meetings and/or conferences. |  |
| **Special requirements** | Ability to attend national and international conferences to present research results |  |

**\*Embedding Collegiality –** [**Our Southampton Behaviours**](https://intranet.soton.ac.uk/sites/strategy/embeddingcollegiality/SitePages/Home.aspx)

Collegiality is a core principle at the University and sits at the heart of everything we do.

**JOB HAZARD ANALYSIS**

**Is this an office-based post, with routine hazards?**

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| --- | --- |
| Yes | This is an office-based post with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete/remove the section below. |
| No | This is an office-based post with some non-routine hazards (eg: contact with the public and/or shift work). Please complete the analysis below. |
| No | This is a non office-based post and has some hazards. Please complete the analysis below. |

**HIRING MANAGER**

Please complete this section as accurately as possible to ensure the safety of the post-holder.

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| **ENVIRONMENTAL EXPOSURES** | **Occasionally**  (<30% of time) | **Frequently**  (30-60% of time) | **Constantly**  (> 60% of time) |
| Outside work |  |  |  |
| Extremes of temperature (eg: fridge/ furnace) |  |  |  |
| ## Potential for exposure to body fluids |  |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below: |  |  |  |
| Frequent hand washing |  |  |  |
| Ionising radiation |  |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** | | | |
| ## Food handling |  |  |  |
| ## Driving university vehicles(eg: car/van/LGV/PCV) |  |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  |  |
| ## Vibrating tools (eg: strimmers, hammer drill, lawnmowers) |  |  |  |
| **PHYSICAL ABILITIES** | | | |
| Load manual handling |  |  |  |
| Repetitive crouching/kneeling/stooping |  |  |  |
| Repetitive pulling/pushing |  |  |  |
| Repetitive lifting |  |  |  |
| Standing for prolonged periods |  |  |  |
| Repetitive climbing (ie: steps, stools, ladders, stairs) |  |  |  |
| Fine motor grips (eg: pipetting) |  |  |  |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height |  |  |  |
| Repetitive reaching at shoulder height |  |  |  |
| Repetitive reaching above shoulder height |  |  |  |
| **PSYCHOSOCIAL ISSUES** | | | |
| Face to face contact with public |  |  |  |
| Lone working |  |  |  |
| ## Shift work/night work/on call duties |  |  |  |

## - HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.