

Job Description and Person Specification

Last updated: November 2019

JOB DESCRIPTION

| | | | |
|------------------------|---|--------|---|
| Post title: | Marie Skłodowska-Curie Fellows ITN | | |
| School/Department: | Physics and Astronomy | | |
| Faculty: | Engineering and Physical Sciences | | |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| *ERE category: | Research pathway | | |
| Posts responsible to: | Principal Investigator | | |
| Posts responsible for: | | | |
| Post base: | Office-based | | |

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|---|
| Job purpose |
| To undertake research in accordance with the specified research project under the supervision of the award holder. To undertake leadership, management and engagement activities. |

| Key accountabilities/primary responsibilities | % Time |
|---|--------|
| 1. To develop and carry out an area of research within the interests of the group. Regularly disseminate findings by taking the lead in preparing publication materials for referred journals, presenting results at conferences, or exhibiting work at other appropriate events. Investigate models and approaches to test and develop them. | 55 % |
| 2. Collaborate/work on original research tasks with colleagues in other institutions. Carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control. Carry out occasional undergraduate supervision, demonstrating or lecturing duties within own area of expertise, under the direct guidance of a member of departmental academic staff. | 35 % |
| 3. Any other duties as allocated by the line manager following consultation with the post holder. | 10 % |

Internal and external relationships

Direct responsibility to holder of research award or academic supervisor.
May have additional reporting and liaison responsibilities to external funding bodies or sponsors.
Collaborators/colleagues in other work areas and institutions.

Special Requirements

To be available to participate in fieldwork as required by the specified research project.
To attend national and international conferences for the purpose of disseminating research results.

*Applications for Research Fellow positions will be considered from candidates who commit to work towards a PhD qualification the Area of Artificial Intelligence without Bias. The title of Research Fellow will be applied upon successful completion of the PhD. Prior to the qualification being awarded the title of **Senior Research Assistant** will be given.*

PERSON SPECIFICATION

| Criteria | Essential | Desirable | How to be assessed |
|--|---|---|----------------------------|
| Qualifications, knowledge and experience | BSc or MSc or equivalent professional qualifications and preferably some experience in research, statistical physics and/or mathematics. Knowledge of mathematical and physical modelling or related areas. | Detailed understanding and knowledge of Monte Carlo simulations Knowledge of statistical models Experience of Bayesian analysis and Monte Carlo simulations | CV, interview |
| Planning and organising | Able to organise own research activities to deadline and quality standards | | interview |
| Problem solving and initiative | Able to develop understanding of complex problems and apply in-depth knowledge to address them Able to develop original techniques/methods | | Interview, past experience |
| Management and teamwork | Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development | Experience of working with large or diverse teams | Interview, past experience |
| Communicating and influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience Able to present research results at group meetings and conferences Able to write up research results for publication in leading peer-viewed journals Work proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes | | Interview, past experience |
| Other skills and behaviours | Understanding of relevant Health & Safety issues Positive attitude to colleagues and students Proactive in promoting a working environment that is inclusive and engaging; recognising the value diversity brings. | | Interview |
| Special requirements | Able to attend national and international conferences to present research results | | Interview |
| Mobility criteria for Marie-Curie ITN | Has not been a resident in the UK for at least 24 months in the last 3 years Does not have more than 4 years' experience as a researcher. | | |

JOB HAZARD ANALYSIS

Is this an office-based post?

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|---|--|
| <input checked="" type="checkbox"/> Yes | If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| <input type="checkbox"/> No | If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below. Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder. |

- 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.

| 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 | | | |