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| Last updated: | January 2023 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow/ Senior Research Fellow** |
| Standard Occupation Code: (UKVI SOC CODE) | 2119 - Natural and social science professionals |
| School/Department: | Zepler institute |
| Faculty: | Faculty of Engineering and Physical Sciences |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway |
| Posts responsible to: | Prof Periklis Petropoulos |
| Posts responsible for: |  |
| Post base: | Office-lab-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 |
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|  | To develop and carry out an area of personal research. This may include:Investigate models and approaches to test and develop them.Collaborate/work on original research tasks with colleagues in other institutions. | 55 % \* |
|  | 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. | 20 % |
|  | Contribute to the writing of bids for research funding. | 5 % \* |
|  | 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. | 5 % |
|  | Supervise the work of junior research staff. | 5 % |
|  | Carry out occasional supervision, demonstrating or lecturing duties within own area of expertise, under the direct guidance of a member of departmental academic staff. | 5 % |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 5 % |

| Internal and external relationships |
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| Direct responsibility to holder of research award or academic supervisor. May have additional reporting and liaison responsibilities to external funding bodies or sponsors.May be asked to serve on a relevant School/Department committee, for example research committee. Collaborators/colleagues in other work areas and institutions. |

| Special Requirements |
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| 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 are working towards or nearing completion of a relevant PhD qualification. 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**

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| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge and experience | PhD or equivalent professional qualifications and experience in fibre optics/PhotonicsDetailed understanding and knowledge of Photonics and CommunicationsPractical experience of working with optical fibres and systemsProven expertise in critical evaluation and interpretation of data | PhD or strong background in Optical CommunicationsExperience of working (and/or modelling) on communication systems experiments and handling high-speed electronic equipmentExperience in the characterisation of photonic componentsUnderstanding of nonlinear optics and their applicationsContributing to teaching at postgraduate levelPostdoctoral experienceExperimental research on high-speed optical fibre communications | CV, shortlisting questions |
| Planning and organising | Able to organise own research activities to deadline and quality standards |  | CV, Interview and references |
| Problem solving and initiative | Able to develop understanding of complex problems, interpret data and apply in-depth knowledge to address themAble to develop original techniques/methods |  | Shortlisting questions and Interview |
| Management and teamwork | Able to supervise work of junior research staff, delegating effectivelyAble to contribute to School/Department management and administrative processesWork effectively in a team, understanding the strengths and weaknesses of others to help teamwork development |  | Interview |
| Communicating and influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audienceAble to present research results at group meetings and conferencesAble to write up research results for publication in leading peer-viewed journalsWork proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes |  | CV and interview |
| Other skills and behaviours | Understanding of relevant Health & Safety issuesProactive 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 |

**JOB HAZARD ANALYSIS**

**Is this an office-based post?**

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| [ ]  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. |
| [x]  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.

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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 | Y |  |  |
| Repetitive climbing (ie: steps, stools, ladders, stairs) |  |  |  |
| Fine motor grips (eg: pipetting) | Y |  |  |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height | Y |  |  |
| Repetitive reaching at shoulder height | Y |  |  |
| Repetitive reaching above shoulder height | Y |  |  |
| **PSYCHOSOCIAL ISSUES** |
| Face to face contact with public |  |  |  |
| Lone working | Y |  |  |
| ## Shift work/night work/on call duties  |  |  |  |