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| Last updated: | May 2022 |

**JOB DESCRIPTION**

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| Post title: | **Research Fellow in Responsible AI** |
| Academic Unit/Service: | School of Electronics and Computer Science |
| Faculty: | Faculty of Engineering and Physical Science |
| Career pathway: | Education, research and enterprisse | Level: | 4  |
| \*ERE category: | Research |
| Posts responsible to: | Principal Investigator |
| Posts responsible for: | n/a |
| Post base: | Office-based |

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| Job purpose |
| The roles will be part of the UKRI Trustworthy Autonomous Systems Hub (TAS Hub). The Hub is led by the University of Southampton with partners from the University of Nottingham and King’s College London. TAS Hub is the focal point of the £33m UKRI Trustworthy Autonomous Systems programme (for more details see [www.tas.ac.uk](http://www.tas.ac.uk))  Undertake independent research as well as working as part of a team - this will include using approaches or methodologies and techniques appropriate to the type of research, and being responsible for writing up their work in order to contribute to published outcomes. The role holder  will aim to develop case-studies based on their research in order to foreground the research questions around building trust in autonomous systems. |

| Key accountabilities/primary responsibilities | % Time |
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|  | To engage in high quality research in the area of trustworthy autonomous systems, which may include focus into primary areas such as machine learning, natural language processing, and artificial intelligence. | 60% |
|  | To establish a national and international reputation through regular peer-reviewed dissemination across top conferences and journals relevant to the trustworthy autonomous systems agenda, including machine learning, natural language processing, and artificial intelligence. | 10 % |
|  | Support the development of case studies in collaboration with TAS Hub partners | 10% |
|  | Responsible for the organisation of workshops, working with the TAS admin team to support specific TAS committees (e.g., Skills or Sector Leads committee) | 15% |
|  | Present work at venues (conferences and exhibitions) with more exposure to industry. |
|  | Contribute to the process of securing further funding and assist the project director in management. |
|  | Any other duties as allocated by the line manager following consultation with the post holder. | 5% |

| Internal and external relationships |
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| * Responsibility to the TAS Hub director
* Responsibility for liaison with sponsors and external funding bodies
* Working with collaborators from the University of Nottingham, King’s College London and the University of Southampton.
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**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 AI ethics, Machine Ethics, Human-Machine Teaming.A track record of good publications at relevant international venues (conferences, journals) | Experience of developing or evaluating autonomous systems with the public or industry | CV or research portfolio |
| Planning and organising | Able to organise own research activities to deadline and quality standards |  | CV or research portfolio |
| Problem solving and initiative | Ability to develop algorithms, models, data analytics, and testbeds.. | Skills in algorithm design, model design, empirical methods, explainable AI. | CV or research portfolio |
| Management and teamwork | Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development | Experience supervising masters or PhD students. | CV |
| Communicating and influencing | Able to present research results at group meetings and research conferences. Excellent written and oral skills.Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience | Maintain an up-to-date website, publish updates through public venues including social media.Able to both lead and collaborate on writing up research results for publication in leading peer-reviewed conferences and journals | InterviewAnd research portfolio |
| 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. | 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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| [x]  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. |
| [ ]  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 |  |  |  |
| 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 |  | x |  |
| Lone working |  | x |  |
| ## Shift work/night work/on call duties  |  |  |  |