

JOB DESCRIPTION

Job Title: Research Fellow (Crowd Safety and Security Science)

Grade: AC2

Department: Faculty of Engineering & Science, Centre for Safety, Resilience and Protective Security

Responsible to: Professor of Crowd Safety and Security Science

Responsible for: N/A

Key Contacts: Professor of Pedestrian and Evacuation Dynamics, Professor of Mathematical Modelling, School of Computing and Mathematical Sciences, M³4Impact and GRI.

Standard Occupational Classification (SoC code):

Non-Contractual Nature of Role Profile: This role profile is non-contractual and provided for guidance. It will be updated and amended from time to time in accordance with the changing needs of the University and the requirements of the job.

PURPOSE OF ROLE

The main purpose of the role is to lead and conduct high-quality research and enterprise in the area of Crowd Safety and Security Science. The person appointed will be expected to:

- Engage in independent research and enterprise in the area of Crowd Safety and Security Science and in so doing contribute to the research profile of the Centre for Safety, Resilience and Protective Security, the School of Computing and Mathematical Sciences, and the University of Greenwich.
- Lead and contribute to the delivery of research and enterprise projects in specialist areas including but not limited to: crowd flow analysis, experimental trials to assess people movement and behaviour, and modelling of crowded environments including large stadia and events, transport hubs and high-rise buildings.
- Contribute to the effective operation of the Centre for Safety, Resilience and Protective Security.

KEY ACCOUNTABILITIES Team

Specific:

Meeting the Team objectives listed:

- Leading small to medium research and enterprise projects through the full project lifecycle, from inception to deliverables, including engagement with funders and clients.

- Contributing to the delivery of large research and enterprise projects, including being responsible for complete work packages and ensuring high quality standards are met.
- Conducting experimental trials to assess people movement and behaviour, using both qualitative and quantitative research methods.
- Conducting crowd flow analysis, including developing micro- and macro- simulation models of crowded environments.
- Developing written reports and publications, and verbal presentations of results for specialist and/or general audiences.
- Contribute to and win research/enterprise bids for funding in support of the Centre strategy.
- Seek funding opportunities proactively to generate new knowledge exchange income for the Centre and the wider M³4Impact team.

Generic:

As post holder you will:

- Assist in achieving the KPIs of the Centre for Safety, Resilience and Protective Security.
- Contribute to internal or external peer review of publications and proposals and maintain high professional standing in your discipline and develop your own scholarly profile
- Promote your work and represent your discipline and the work of the University internally and externally, and take a proactive approach to ethical, good practice
- Implement approved policies, guidelines, and standard operating procedures efficiently in relation to their own academic duties.

Managing Self:

- Keep abreast of developments within your field and seek continuous improvement of own professional practice.
- Actively participate in established professional development framework activities.
- Behave in a manner that reflects the University values and creates a positive environment for work and study.

Core Requirements:

- Commitment to key strategic priorities of the Faculty and University.
- Adhere to and promote the University's policies on Equality and Diversity and Information Security.
- Ensure compliance with Health and Safety regulations and Data Protection legislation.
- Support and promote the University's Sustainability policies, including the Carbon Management Plan, and carry out duties in a resource efficient way, recognising the shared responsibility of minimising the university's negative environmental impacts wherever possible.
- Adhere to current legal requirements and best practice relating to digital content and accessibility, including Web Content Accessibility Guidelines when creating digital content.

Additional Requirements:

Undertake any other duties as requested by the line manager or appropriate senior manager, commensurate with the grade.

Freedom of speech and academic freedom:

In any matter falling under this policy, the university will have particular regard to, and place significant weight on, the importance of freedom of speech within the law, academic freedom and tolerance for controversial views in an educational context or environment.

The University's commitments to freedom of speech and academic freedom are set out in the [Freedom of Speech Code of Practice](#). In the event of any conflict between this policy and the Freedom of Speech Code of Practice, the Freedom of Speech Code of Practice will take precedence.

KEY PERFORMANCE INDICATORS:

Performance Indicators will be established in consultation with the line manager, the Centre Lead and the other M³4Impact leads, as part of the post holder's annual Appraisal and Professional Development Review and with due regard to the University's KPIs.

KEY RELATIONSHIPS (Internal & External):

- Centre for Safety, Resilience and Protective Security Management Team
- Faculty Management Team
- M³4Impact Management Team
- M³4Impact Staff
- GRI
- External funders and External Partners.

PERSON SPECIFICATION

EXPERIENCE:

Essential Criteria

- A proven track-record of delivering research and/or enterprise projects in the area of Crowd Safety and Security.
- Experience in leading research and enterprise projects, for the full project lifecycle, from inception to deliverables, including engagement with funders and clients.
- Experience in working with a range of stakeholders, including commercial, government and public sector.
- Individual and/or collaborative income generation.
- Contribute to delivering impacts or outcomes with demonstrable benefits to businesses, the public sector, or society in general.
- Experience of using microsimulation software for conducting analysis of pedestrian and evacuation behaviour.
- Experience in conducting experimental trials to assess people movement and behaviour.
- Experience in developing written reports and publications, and verbal presentations of results for specialist and/or general audiences.

Desirable Criteria

- Proven track record of sustained academic publications with international impact.

SKILLS:

Essential Criteria

- Excellent organisational and management skills.
- Outstanding interpersonal skills and ability to motivate others.
- Excellent written and oral communication skills.
- Commitment to the promotion of high standards and excellence.
- Ability to think strategically and conceptually.
- Capacity to listen and consult, good negotiation skills.
- Capacity to make informed decisions.
- Ability to work effectively and deliver under pressure.
- Able to use IT effectively.

Desirable Criteria

- Knowledge of the mechanisms of applying for research and enterprise funds including the preparation of grant proposals.

- Ability to lead a team of researchers, including task management and line management.

QUALIFICATIONS:

Essential Criteria

- The successful candidate should have (or be currently working towards) a PhD relating to Crowd Safety and Security Science.

Desirable Criteria

- BSc in a related discipline (e.g. Mathematics, Computer Science)

PERSONAL ATTRIBUTES:

Essential Criteria

- We are looking for people who can help us deliver the [values](#) of the University of Greenwich: Inclusive, Collaborative and Impactful.

Desirable Criteria

- Work well under pressure and to deadlines
- Ability to work well within a small team as well as work independently