

Research Role Profile

<b>Job Title:</b>	Research Fellow (1A)
<b>Responsible to:</b>	Head of research group, or principal investigator
<b>Responsible for:</b>	Not applicable

**Job Summary and Purpose:**

To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

**Main Responsibilities/Activities**

To undertake a range of research activities within a specified research area, assuming responsibility for specific areas of projects and making use of new research techniques and methods, in consultation with the research award holder or supervisor. This may include fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research.

Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare papers for submission to appropriate journals and conferences, and other outputs as required and/or appropriate. Attend appropriate conferences for the purpose of disseminating research results of personal development. The post holder may also contribute to writing bids for research grants and will contribute to collaborative decision making with colleagues in areas of research.

Continually to update knowledge and develop skills, and translate knowledge of advances in the area into research activity.

To plan and manage own research activity in collaboration with others. To 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.

To contribute to teaching in the Faculty by carrying out student supervision and/or demonstrating within the post holder's area of expertise and under the direct guidance of a member of departmental academic staff, as appropriate.

The post holder may occasionally be required to supervise more junior research staff.

## Research Role Profile

### Person Specification

#### The post holder must have:

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years experience in specified / relevant fields

The post holder will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

### Relationships and Contacts

Direct responsibility to the principal investigator or academic supervisor. The post holder may be asked to serve on a relevant Faculty committee. There may be additional reporting and liaison responsibilities to external funding bodies or sponsors. The post holder may work on original research tasks with colleagues in other institutions.

### Special Requirements

To be available to participate in fieldwork as required by the specified research project

#### All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
  - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
  - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

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Addendum to Role Profile

<b>Job Title:</b>	Research Fellow (1A)
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**Job Summary and Purpose:**

This information sheet should be read in conjunction with the accompanying generic Research RA1A Role Profile and will be used for shortlisting processes. More specifically the post holder will be expected to:

To carry out research independently in a project funded by EPSRC on progressive collapse and accidental actions on concrete flat slab tall and supertall buildings in accordance with the specified research project under the supervision of the principal investigator.

**Main Responsibilities/Activities**

(i) Conduct independent research in the area of structural modelling of reinforced concrete flat slabs subjected to impact, blast loading and progressive collapse in an EPSRC-funded project; also contribute towards the objectives of the research centre at the University of Surrey. This may include theoretical research, field measurements and preliminary design of experimental work or numerical modelling in the area of dynamics, non-linear behaviour of concrete and FE modelling of steel/concrete systems.

(ii) Take active part in the activities and research of the Structures Group as a whole. This may include co-supervision of student projects.

(iii) Publish the work carried in the project in journal papers, conferences and other technical talks as well as in technical reports.

(iv) Organise and attend project meeting with the supporters/collaborators of this project in the UK and abroad. Work closely with industrial collaborators to investigate and demonstrate the applications of the models developed and implementation into practice.

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### Person Specification

**The post holder must have:**

- Hold a PhD qualification or equivalent in a related engineering discipline or a closely related subject.
- Be highly motivated for independent research.
- Have strong organisational and communication skills.
- Have creativity and the ability to interpret and analyse results.
- Have familiarity with structural design method and theory-based models for concrete flat slab construction in building structures under normal and accidental situations.
- Have a track-record of publication in international conferences and journals.
- Have high academic achievement, in terms of exam results, project work and publications.

In addition, the post holder is expected to:

- Develop strong working relationships with the other members of the Structures group and CEE staff members, and also to further their international network of contacts in research.
- Attend international conferences as well as progress meetings with the collaborators as appropriate.

### Relationships and Contacts

Informal enquiries may be made to Dr. Juan Sagaseta (T:+44(0)1483686649, E: [j.sagaseta@surrey.ac.uk](mailto:j.sagaseta@surrey.ac.uk)).