Job Title Research Associate

Job Family/level Research and Education, Level B

Responsible to Prof Shah, Prof Pantelides

Responsible for Research on specified project

Key Working Relationships (internal) Project team, advisory committee
Key Working Relationships (external) Industrial collaborators

The Purpose of the Post

Carry out research as part of a team and present research results over 36 month on an EPSRC funded project

Key Responsibilities

- Carry out research on project defined by research supervisor and sponsors.
- Produce written reports and oral presentations.
- Liaise with industrial collaborators to obtain necessary data/models and provide updates on progress.

Job descriptions cannot be exhaustive and the post-holder may be required to undertake other duties, which are broadly in line with the above key responsibilities.

Imperial College is committed to equality of opportunity and to eliminating discrimination. All employees are expected to adhere to the principles set out in its Equal Opportunities in Employment Policy, Promoting Race Equality Policy and Disability Policy and all other relevant guidance/practice frameworks.

PERSON SPECIFICATION

Applicants are required to demonstrate that they possess the following attributes.

Experience

Candidates should have:

- PhD degree in numerical analysis or mathematical modelling preferably with experience in global sensitivity analysis, systems modelling, stochastic processes and global optimization
- Good knowledge of Monte Carlo and Quasi Monte Carlo methods and various sampling techniques
- Extensive programming experience in object-oriented programming

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- **Skills/Abilities**

  Candidates must be able to demonstrate the following:

- Ability to plan and pursue research.
- Ability to exercise initiative and creativity.
- Ability to speak English fluently and make oral presentations of scientific material of clarity and coherence.
- Ability to produce clear and coherent technical reports.

The postholder will aspire to excellence in all of his/her professional activities.

The postholder will be able to relate to other members of the research group in an academic context and will be able to take part in group activities such as group meetings.

The postholder will be able to present himself/herself to any industrial collaborators with authority and coherence.

Knowledge

- Knowledge of mathematical modelling tools
- Knowledge of programming languages and numerical methods

Any other requirements

None