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Ref: DOB/RESEARCH/20170315

## Opening for Research Assistant – Fall Arrest Equipment Drop Tests

Job Title: Research Assistant

Date posted: Mar 16, 2017

Period of employment: 1 year full-time (with possibility of extension)

### Duties and responsibilities:

The research assistant will conduct research-related activities such as:

- Set up and conduct drop test experiments (dropping test mass onto lifelines and fall arrest equipment and use load cells and accelerometers to measure the forces and distances involved in the fall arrest);
- Conduct analyses using Matlab, SPSS, R and/or other engineering or statistical software;
- Conduct interviews with contractors, engineers, equipment suppliers and other relevant stakeholders;
- Conduct literature review on fall protection equipment and studies;
- Write research papers, reports and proposals.

### Requirements:

- At least a good engineering (preferably mechanical), or physics degree;
- Good knowledge of Matlab or similar engineering software; and
- Good writing and communication skills.

### Remuneration:

- Salary will commensurate with the candidate's qualification and experience

### Other Details:

- Candidates with the following experience or knowledge will be preferred:
  - Desire to pursue a PhD or Master by research under the Principal Investigator;
  - Experience with fall arrest or rock climbing equipment;
  - Publications in peer-reviewed journals;
  - Safety management experience; and
  - Work experience in construction or other heavy industry.

### Principal Investigator's contact details for further information:

- Dr Goh Yang Miang; [bdggym@nus.edu.sg](mailto:bdggym@nus.edu.sg); +65 6601 2663

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