

Post Description

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| Position | Early Career Research Fellow (Taiwan) | Position no: | 15708 |
| College / Directorate / Institute | Civil and Environmental Engineering / Engineering, Design and Physical Sciences | | |
| Bursary | £39,907 per annum. | | |
| Contract type | Fixed-Term 12 months | | |
| Full time/Part time | Full time | | |
| Accountable to | Xiangming Zhou, Head of Department of Civil & Environmental Engineering | | |
| Reports | | | |
| Internal stakeholders | Department of Civil & Environmental Engineering, Brunel University London | | |
| External stakeholders | Early Career Fellowships Scheme under the International Science Partnerships Fund (ISPF), UK Department for Science, Innovation, and Technology, the British Council | | |
| Date reviewed | 31 May 2024 | | |

Main accountabilities:

Key duties and responsibilities:

1. The Department of Civil & Environmental Engineering has been awarded a grant by the British Council through the International Science Partnerships Fund (ISPF) to appoint three early career fellows from Taiwan to collaborate internationally and gain access to new research environments, facilities, knowledge, and expertise, to enhance the quality of their research environments and enable them to translate research and innovation into economic and societal benefit. The International Science Partnerships Fund puts research and innovation at the heart of our international relationships, supporting UK researchers and innovators to work with peers around the world on the major themes of our time: planet, health, tech and talent.
2. The post holders will be full-time based at Brunel University London to conduct state-of-the-art research both independently and collaboratively within the specialised areas. For Taiwan cohort, the research areas focus on construction engineering and management especially in the themes of decarbonisation/net zero, Circular Economy for Construction & Demolition Waste management, Digital Transformation for construction safety management. Applications will be prioritised under the theme of Net Zero and supporting Women in STEM.
3. The post holders will grow their academic career in the designated research themes whilst promoting the international profile of Brunel University London.
4. The post holder should fulfil the duties as described in the Person Specification, including planning and conducting the original research at Brunel University London, obtaining original research outputs, and disseminating research in various channels such as journals, conference

proceedings, research seminars, and local communities. More specifically, the post-holder is expected to:

Post Profile

Post-holders will be expected to provide updates of research work to staff and students, **direct** the work of small research teams and have **direct** client/sponsor contact

- Production of independent original research
- Take initiative in the planning of research

Management of Staff and Students (Responsibilities and Accountability)

- Provide guidance to staff and students and to direct work of small research team including Research Assistants and Technicians

Effective Behaviours

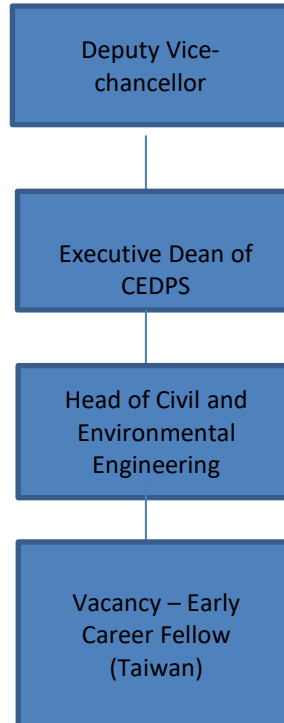
- Timeliness
- Meeting Deadlines
- Communication and Networking
- Networking group across colleges
- Ability to negotiate and influence
- Ability to plan and organise own workload
- Ability to adapt to a flexible approach to the demands of a busy college/department in order to accommodate changes in priorities when required

University Employment Policy:

1. Undertake any other reasonable duties as required and commensurate with the grade of post.
2. Adhere to and comply with the provisions of the Data Protection Act and the Health and Safety at Work Act in accordance with University policies.
3. Undertake all duties and responsibilities in compliance with the rules and regulations encompassing equal opportunities to help foster a diverse workforce.
4. Adhere, comply and work in accordance with University and Departmental policies, procedures and codes of conduct.
5. Promote the University's Environmental Policy and demonstrate commitment to it through actions and decision making.
6. Actively participate in on-going professional development activities as requested

Organisational Chart

The organisational chart comprises of the role, the manager of the role and any direct reports to the role.



Disabled applicants meeting the Essential criterion will be guaranteed an interview as part of the University's commitment to the Disability Confident Scheme.

Person Specification

| Attributes | Criteria | Essential /Desirable | How measured |
|-------------|---|----------------------|--------------|
| Eligibility | <ul style="list-style-type: none"> • Be a permanent resident in Taiwan; • Be an Early Career Researcher (e.g., a candidate near PhD completion or working as a post-doctoral researcher in Taiwan); • Not currently in receipt of financial support or funding towards any other programme in the UK from any other sources; • Meet the English language requirement of the UK HEI if applicable; • Have a background or a proven interest in one of the research areas within construction management especially in | E | |

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| | <p>the themes of decarbonisation/net zero, circular economy, and digital Transformation for safety management. Be willing to demonstrate future contributions to capacity-building and socio-economic advancement through the benefits achieved after completing the fellowship programme. Be willing to demonstrate future contributions to capacity-building and socio-economic advancement through the benefits achieved after completing the fellowship programme;</p> <ul style="list-style-type: none"> • Agree to maintain contact with the British Council for purposes of monitoring and evaluation during and after the fellowship; • Demonstrate a plan and a passion to engage other early career researchers from their home country; and • Employees of the British Council, the UK government or Scottish, Welsh, or Northern Irish governments are not eligible to apply for this programme. | | |
| Education, qualifications & training | <p>PhD in appropriate Discipline in the field of Civil Engineering, Construction Engineering & Management)</p> <p>OR</p> <p>Attained equivalent research, industrial or commercial experience. (Minimum 4 years).</p> <p>Evidence of research attainments including examples of written contributions in academic publications/journals and PhD thesis in the designated research themes of construction engineering & management</p> | E | Application form |
| Experience | <p>Evidence of IT literacy including Excel and databases.</p> <p>Provide evidence of independent, original research.</p> <p>Experience of organising and supervising a project team</p> <p>Proven experience of planning research, preparing research proposals and negotiating contracts with little supervision.</p> | E | Application form, Interview |
| Knowledge Skills & Abilities | <p>Good communication skills both verbal and written – particularly when demonstrating the</p> | E | |

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| | <p>results of own research to both specialists and non-specialists in English.</p> <p>Ability to draft research papers for Publication in appropriate Academic Journals.</p> <p>Ability to work largely on own initiative with minimum supervision.</p> <p>Ability to give presentations at academic/non-academic conferences and meetings</p> <p>Evidenced knowledge, skills of abilities at least one of the following topics: decarbonisation/net zero; Construction & Demolition Waste management; Digital Transformation (e.g., BIM and Digital Twinning); construction safety management.</p> | <p>E</p> <p>E</p> <p>E</p> <p>E</p> | <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> |
| Additional Requirements | <p>Working in a multi-cultural and diverse environment</p> <p>Demonstrated capability in working both independently and collaboratively</p> | <p>D</p> <p>D</p> | |

Job Hazard Assessment

Any identified hazards have undergone appropriate Risk Assessments.

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| Please tick all relevant workplace hazards identified with this post. | | | | |
| Currently the University, as a minimum runs Health Surveillance programmes for staff working with skin and respiratory sensitisers, Biological Agents Class 2 and above and GMOs. | | | | |
| Display screen equipment <input checked="" type="checkbox"/> | Manual handling <input checked="" type="checkbox"/> | Prolonged standing e.g. 1 hour plus <input type="checkbox"/> | Prolonged sitting e.g. 1 hour plus <input checked="" type="checkbox"/> | |
| Biological agents: Class 2 and above and GMO Class 1 <input type="checkbox"/> | Human blood, tissue or fluids <input type="checkbox"/> | Respiratory sensitisers or laboratory allergens e.g. animals <input type="checkbox"/> | Skin Irritants/Chemicals <input type="checkbox"/> | |
| Work in confined Places <input checked="" type="checkbox"/> | Ionising radiation <input type="checkbox"/> | Noise (more than 80 dba-8 hrs. law) <input type="checkbox"/> | Lone working <input type="checkbox"/> | |
| Use of dangerous machinery <input type="checkbox"/> | Electrical hazards <input type="checkbox"/> | Shift work/night work <input type="checkbox"/> | Work outdoors <input type="checkbox"/> | |
| Neck & arm vibrating equipment <input type="checkbox"/> | Fork lift truck driving <input type="checkbox"/> | Work at heights <input type="checkbox"/> | Lasers <input type="checkbox"/> | |
| Any other hazards (e.g. food handling) please specify and ensure that appropriate guidance has been received from the Health & Safety office: | | | | |
| Physical demands of the job | Lifting <input type="checkbox"/> | Carrying <input type="checkbox"/> | Bending <input type="checkbox"/> | Pushing <input type="checkbox"/> |
| If lifting/carrying duties expected, please give details of heights/weight load(s) the individual is expected to lift/carry and frequency: | | | | |
| Travel/Off-site working: | % of time | UK <input checked="" type="checkbox"/> | Overseas <input type="checkbox"/> | |
| Driving for work: | None <input checked="" type="checkbox"/> | Occasionally <input type="checkbox"/> | Weekly <input type="checkbox"/> | Daily <input type="checkbox"/> |
| Management responsibility: | Supervisor <input checked="" type="checkbox"/> | | Non-supervisory <input type="checkbox"/> | |
| Hours of work: | Full time <input checked="" type="checkbox"/> | | Part time <input type="checkbox"/> hours | |
| Non-standard contractual hours? (evenings/weekends) N/A Frequency, number of hours, type of work outside standard hours: | | | | |
| Other – including occasional or possible work hazards (please specify nature and frequency): | | | | |