

## **Job Opportunity – Research Fellow / Research Engineer**

The “Construction Performance Assessment & Improvement Research Unit(cPAIRu)” (<http://www.bdg.nus.edu.sg/cPAIRu>) at the Department of Building, National University of Singapore, focuses on the research areas of: (1) Project/Enterprise Performance Assessment, Comparison and Improvement; (2) Project/Enterprise Success Factors and Best Practices; (3) Management Strategies and Innovations for Green Construction Projects; (4) Project/Enterprise Risk Management and Decision Making, with consideration of successfully achieving goals and objectives of projects and enterprises in the construction industry at each phase of the entire facility delivery process.

“cPAIRu” is now seeking an active and experienced **Research Fellow / Research Engineer** and the successful candidate will contribute to the planning, coordination and execution of a research program related to **Improvement of Capital Project Predictability and Construction Productivity for Process Construction and Maintenance Projects** performed by major energy, oil & gas, and chemicals companies and their contractors, who are the members of the Singapore Chemical Industry Council (SCIC) and Association of Process Industry (ASPRI). Interacting with the companies as well as Construction Industry Institute, USA and Singapore Economic Development Board (EDB), this individual will play a pivotal role in providing oversight for the project, but also will lead/manage a small and dynamic research group including research assistants and some undergraduate and graduate students, under the guidance of the PI of this research project.

**Job Title:** Research Fellow / Research Engineer

**Contract Period:** 1 Year from July/August 2017 (possibly reappointed based on performance)

### **Skills:**

- Strong practical experience and understanding of Construction, Maintenance and Management of Energy, Oil & Gas, and Chemicals Production/ Process Facilities
- In depth knowledge and research experience in Productivity Assessment, Analysis and Improvement (preferably in the areas of Activity Analysis, Workface Planning, Mechanization, Best Practices for Productivity Improvement)
- Project management, planning and monitoring skills including project timelines & schedule, resources allocation & management, and progress monitoring, analysis & reporting
- Familiarity with statistical analysis, using software packages (SPSS, Minitab, SAS, etc.)
- People management skills to manage small to medium group (4-12) of researchers
- Preferably web-design, management & related programing skills
- Excellent presentation and communication skills (in English)
- Strong academic writing skills (in English)
- Strong problem solving skills; able to work independently

### **Experience:**

- Strong research experience in designing and conducting field studies as well as field data collection & validation
- Developed and implemented performance management & improvement models & tools
- Experience in conducting training and interacting with industry members
- Writing research reports, journal papers, and research/project proposals

### **Qualifications:**

- A doctoral degree (Research Fellow) or a master degree with +6 years of strong working experience (Research Engineer) in Construction / Process / Plant Industry Related Disciplines (e.g., Construction Engineering, Civil Engineering, Chemical Engineering, Mechanical Engineering, Construction Management, Project Management, or Facilities Management)

### **Remuneration:**

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

**Interested candidates may submit their detailed CV and supporting documents to:**

Associate Professor Bon-Gang (BG) HWANG (Dr.)

Email: [bdghbg@nus.edu.sg](mailto:bdghbg@nus.edu.sg) / Website: <http://www.bdg.nus.edu.sg/about-us/faculty-and-research.html>