

## **Job Opportunity – Research Assistant**

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 Assistant** and the successful candidates 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), the research assistant will perform academic development work as well as field practical work together with research fellows and some undergraduate and graduate students under the guidance of the PI.

**Job Title:** Research Assistant

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

### **Skills:**

- Strong understanding of Construction, Maintenance and Management of Energy, Oil & Gas, and Chemicals Production/ Process Facilities, preferably with relevant work experience
- In depth knowledge and research experience in Productivity Assessment, Analysis and Improvement (preferably in the areas of Activity Analysis, Workforce Planning, Mechanization, Best Practices for Productivity Improvement)
- Managing project timelines & schedule, resources allocation & management, and progress monitoring, analysis & reporting
- Familiarity with statistical analysis, using software packages (SPSS, Minitab, SAS, etc)
- Preferably web-design, management & related programming skills
- Excellent Academic track record
- Strong English written and oral communication skills
- Strong problem solving skills; able to work independently

### **Experience:**

- Participated in research projects
- Carried out in depth literature review & case studies
- Conducted field studies (Design, Data Collection, Validation, Analyses & Reporting)
- Developed and implemented (web-based) performance management & improvement models & tools
- Conducted interviews and interacted with industry members
- Writing journal papers and academic reports

### **Qualifications:**

- A master degree preferably with some working experience 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
- If qualified for admission, the candidates may opt to pursue a Ph.D. degree on relevant subjects

**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>