

# **THE HONG KONG POLYTECHNIC UNIVERSITY**

## **INDUSTRIAL CENTRE**

### **Post Specification**

**Numerical Control (NC) Programmer / Manufacturing Engineer (several posts) (Ref. 19012110)  
[to be appointed at the substantive level of Research Associate]**

**[Appointment period: each for twelve months]**

The Aviation Services Research Centre (ASRC) is an industry-led non-profit making organization established by The Hong Kong Polytechnic University (PolyU) in collaboration with the Boeing Company (Boeing), Hong Kong Aircraft Engineering Company Limited (HAECO) and Hong Kong Aero Engine Services Limited (HAESL). It is commissioned to develop new or improved aviation service technologies and processes specializing in Maintenance, Repair and Overhaul (MRO), covering aviation service research, manpower development and business information exchange. Inspired by and inherited from the longstanding history of PolyU in propelling the technological advancements and applied research, the ASRC is destined to raise the industry's standard to new heights. It is currently looking for high-calibre candidates to join the research team.

### **Duties**

The appointees will assist the Project Leader in various projects undertaken by the ASRC. They will be required to:

- (a) be part of a team of programmers working offline in an R&D environment to create and troubleshoot complex toolpaths for 3, 4 and 5 axis machining centres;
- (b) work with the research team to establish world class Computer Numerical Control (CNC) manufacturing operations for Aerospace customers;
- (c) develop machining methodology, establish cost estimation and create NC data to support manufacturing of products;
- (d) prepare and manage all manufacturing data, including machining programs, and support CNC Machine Operators where required;
- (e) adhere to the ASRC's Quality, Health, Safety, and Environment Policy (EHQMS), and be proactive in promoting safety practices and identifying problems to achieve and maintain high standards of performance;
- (f) assist the Project Leader in performing their duties; and
- (g) perform any other duties as assigned by the ASRC's management or its delegates.

## **Qualifications**

Applicants should:

- (a) have a master's degree or a good honours degree;
- (b) have at least three years of relevant research/work experience in CNC Programming/Machining, NC Programming of Aerostructure or Aero Engine Parts, CAD/CAM packages, CATIA V5 Machining, Siemens NX CAM, Siemens 840D CNC Control Systems, ICAM or Vericut simulation software, writing postprocessors via ICAM, CPost, IMS or PostWorks, other CNC Control Systems, STARRAG Ecospeed F or STC800 machining centres, mechanical design/drafting; and hands-on experience in machining;
- (c) have knowledge of system programming language and Data Management and Configuration Management principles;
- (d) have solid machining knowledge, understand machine setup and work holding principles;
- (e) be able to read and interpret drawings and specifications for manufacturing requirements and be proficient in GD&T;
- (f) have strong mechanical aptitude, and good analytical and problem solving skills;
- (g) possess proficient computer skills and be able to learn new software applications;
- (h) have a good command of both written and spoken English, with strong communication skills; and
- (i) be a good team player with good interpersonal skills.

Applicants are invited to contact Dr Stephen O'Brien at tel no. 2766 7600 or email [stephen.obrien@polyu.edu.hk](mailto:stephen.obrien@polyu.edu.hk) for further information.

## **Remuneration**

A highly competitive remuneration package will be offered. Applicants should state their current and expected salary in the application.

21 January 2019