Open position - postdoc or research associate/assistant to develop protective environment-casing for devices in a wireless-based monitoring system

**Job Summary**
A postdoc or research associate/assistant position is available to develop an enclosure/casing to protect devices of a wireless-based remote monitoring system from damages due to harsh accident environments. This position will focus on design and construction of thermally insulated environment protection casing for harsh deployment environment that include high temperature, pressure, humidity, gases and air-borne particles.

**Area of Research**
Design, analysis and construction of an enclosure/casing to protect embedded electronic devices from harsh deployment environment. Investigating and analyzing suitable casing materials including composites.

**Responsibilities and Duties**
- Design and construction of a casing to protect embedded electronic devices from harsh environments
- Investigating suitable thermally-insulated materials including composites for the casing
- Design/development of a heat sink for the electronic devices
- Prototype development
- Supervision of graduate students working on the same project

**Qualifications and Skills**
- Degree in Mechatronics/Materials/Mechanical engineering, or a related field
- Experience with materials engineering using modeling and analysis design tools
- Knowledge on composite materials and their applicable uses as environmental barriers
- Good understanding of thermodynamics with emphasis on heat-transfer

**Job Type: Full-time**

The position is a one-year Fellowship with the possibility of renewal. Interested candidates are requested to send electronic versions of their curriculum vitae, along with a statement of research interests to Dr. Jin Jiang at jjiang@eng.uwo.ca.

Dr. Jin Jiang  
Professor and NSERC/UNENE Senior Industrial Research Chair  
Dept. of Electrical & Computer Engineering  
University of Western Ontario  
London, Ontario  
N6A 5B9 CANADA  
E-mail: jjiang@eng.uwo.ca  
Home page: http://cies-western-eng.ca/jjiang/home.htm