A postdoc or research associate/assistant position in industrial Wireless Sensor Network (WSN)

**Job Summary**
A postdoc or research associate/assistant position is available to develop a wireless-based system for remotely monitoring safety-critical power plants under severe accident conditions. The position will focus on design and development of a wireless sensor network communication stack, designing a robust, fault-tolerant network routing protocols, time synchronization scheme and development of deployment strategies of the wireless network based on specific deployment area.

**Area of Research**
Wireless sensor network (WSN) communication stack; Network routing protocols; Time synchronization; Network deployment strategies;

**Responsibilities and Duties**
- Design, development and prototype implementation of network communication stack for an embedded, low-power multi-channel/multi-radio WSN
- Development and implementation of robust, energy-efficient and fault-tolerant routing protocol for the WSN
- Development and implementation of WSN time synchronization scheme
- Development and implementation of WSN deployment strategy considering a given plant layout
- Supervision of graduate students working on the same project

**Qualifications and Skills**
- Degree in computer science, computer engineering, or a related field
- Experienced with embedded systems and development of MAC or Network protocol for WSNs
- Experience in developing, optimizing, implementing and evaluating network and routing protocols in WSNs

Strong understanding of wireless communications; modeling of wave propagation in harsh/dynamic environments

**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.

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