

**Job Title:** R&D Engineer – INS  
**Location:** Scottsdale, AZ, USA or Calgary, AB, Canada  
**Department:** Engineering  
**Prepared Date:** July 28, 2018

Full-Time     Part-Time /     Exempt     Non-Exempt

### **Summary**

As part of the Advanced Algorithms Group, the R&D Engineer will deliver state-of-art Inertial Navigation System (INS) algorithms

### **Essential Duties and Responsibilities**

- Research, develop, simulate, implement, and test innovative ideas to improve Hemisphere's INS algorithms
- Develop complex software in C, C++, and MatLab in accordance with Hemisphere processes
- Problem investigation, root cause analysis, and corrective actions
- Creation of related material such as articles, white papers, and patent

### **Success Factors**

- Sound problem-solving techniques
- Works independently or collaboratively with associates
- Proficient at developing firmware for embedded systems
- High quality standards

### **Supervisory Responsibilities**

- This position will not supervise direct reports

### **Education and/or Work Experience Requirements**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

### **Education and/or Experience**

- Ph.D. or M.Sc. in Engineering, Mathematics, or related field or B.Sc. with significant relevant experience
- Experience developing INS, or related precision positioning technologies
- Good English oral and written skills

### **Desirable Skills/Experience**

- Knowledge of statistical modeling, stochastic processes, and Kalman filter theory
- Experience with integer ambiguity resolution
- Significant experience in GNSS industry or research
- Proven intellectual property development
- Experience developing software for large projects