Hemisphere®

Job Title: R&D Engineer – RTK/PPP
Location: Scottsdale, AZ, USA or Calgary, AB, Canada
Department: Engineering

☒ **Full-Time**   ☐ **Part-Time** /   ☒ **Exempt**   ☐ **Non-Exempt**

Summary

As part of the Advanced Algorithms Group, the R&D Engineer will deliver state-of-art Real Time Kinematic (RTK) and Precise Point Positioning (PPP) algorithms that are critical to all Hemisphere GNSS products.

Essential Duties and Responsibilities

- Research, develop, simulate, implement, and test innovative ideas to improve Hemisphere's RTK and PPP 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 RTK, PPP, 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