



Principal Inertial Engineer

Gladiator Technologies, Inc. (www.GladiatorTechnologies.com) is a growing advanced technology designer and manufacturer of robust high performance MEMS inertial sensors (gyros and accelerometers) and systems (including IMU's, Vertical Gyro, and AHRS up to GNSS-aided INS). These advanced technology products are used around the world in hundreds of applications including in aerospace & defense, motorsports racing, automotive testing, airborne, sea and land image stabilization and other markets.

We are currently seeking a full time **Principal Inertial Engineer** to join our team at our Snoqualmie, Washington location. Our ideal candidate will be a skilled technical hands-on engineer with practical experience in relevant Guidance and Navigation roles. Must have the ability to work well in a dynamic and highly motivated team environment. Our work environment is fast-paced and requires team members to have technical aptitude and be detail-oriented, to learn quickly and have organizational skills, but most importantly to have a positive attitude and enjoy their job and their peers.

POSITION SUMMARY:

Leads design and development of advanced MEMS inertial sensors (accelerometers, gyros) and associated systems (IMU & INS/GPS products.) Responsible for inertial systems development including requirements capture; architecture and system concepts; algorithm support for software development; design and schematic review of sensor and microprocessor boards and related hardware; testing and validation. Collaborate with other engineering disciplines for sensor design, system packaging and test engineering for calibration and testing of current and future products.

ESSENTIAL DUTIES AND FUNCTIONS:

- Apply expertise in inertial navigation systems to drive IR&D efforts and new product introduction projects in alignment with strategic plans.
- Generate concepts, detailed designs, analyses, and test results to realize inertial sensor innovations necessary to achieve business objectives.
- Optimize technical solutions through expert-level knowledge of first principles, sensor physics, digital signal processing or system modeling and testing.
- Own and coordinate development of new and derivative products in partnership with peers.
- Perform requirements flow down to translate internal and customer system needs to product specifications and verification methods.
- Support electronic design efforts including analog and CPU-level digital circuit design.
- Advance ongoing development of integrated navigation solutions (including Extended Kalman Filtering) in the current and future INS/GPS products through research, simulation, experimentation, and application.
- Lead project qualification and other test validation initiatives.
- Develop project plans, perform project management, and apply New Product Introduction procedures for new products.
- Perform quantitative analysis on inertial performance test data and guide test process, manufacturing, and design improvements.



- Work in close cooperation with senior scientific staff to ensure that the engineering projects and product development theoretical work is maintained for future systems development.
- Interact and mentor junior engineering staff to ensure effective development of their knowledge and expertise related to inertial systems development and testing.
- Support executive management strategic planning of new technologies and products to continue leading the market segments we currently serve including the aerospace, defense, space and transportation industries.
- Lead and support documentation associated with specifications, user guides, updates to assembly and production testing per AS9100D / ISO 9001:2008.
- Support troubleshooting of both developmental and production products.
- Provide technical input for customer support activities.
- Perform other related duties as assigned.

QUALIFICATIONS:

- MS or PhD degree in Electrical, Aeronautical, Systems, or related Engineering discipline from an accredited educational institution. (BS considered for highly experienced individuals)
- 5+ years of hands-on experience in one or more of the following: inertial sensor design, guidance & navigation system application, MEMS sensor design, digital signal processing or CPU-level electronics design.
- Strong written and verbal communication skills.
- Strong computer, physics and math skills required.
- Skilled in using MSOffice suite, as well as proficiency in several of the following: Python, C+, MATLAB, OrCAD, Altium, LabVIEW, Solidworks or FEA/CFD tools.
- Aerospace and Defense electronics experience highly desired.
- Familiarity with digital designs that include microprocessors, FPGAs, and communications buses including RS485, USB, SPI, etc.
- Experience in reliability design and testing to ensure that our inertial products have advanced service life capabilities under all operating conditions is a plus.
- Enjoys technology and has a proactive attitude to identify and solve problems via hands-on interaction with manufacturing and test.
- Strong knowledge in project management with experience in planning and tracking efforts.
- Knowledge of Lean Manufacturing principles and/or Six Sigma, DFM, DOE and TQ systems.
- Commitment to Quality Systems and Continuous Improvement.
- Experience in an ERP/MRP computerized environment desired
- Experience in a highly regulated Quality environment such as Aerospace or Medical devices.
- Must be willing to work cooperatively in a small team environment.
- Excellent attention to detail
- Follow through in testing new development products.
- Interest in learning new skills and assuming new responsibilities

Gladiator Technologies offers a competitive salary and benefits package, a professional, collaborative, and positive team-oriented work environment and career opportunities in a rapidly growing organization. We value performance and commitment to quality in our workforce and encourage all high performance, qualified candidates to apply!



Apply Online: jobs@gladiatortechnologies.com or fax us a resume and cover letter: **425-396-1129** (*no phone calls please*)

Because this position requires potential access to technology controlled under the International Traffic in Arms Regulations (ITAR) or the Export Administration Regulations (EAR), the successful candidate must be a "U.S. person" as defined in the ITAR and EAR. In order to be a U.S. person for ITAR and EAR purposes, you must: (i) be a citizen or national of the United States; or (ii) be a lawful permanent resident (i.e., "green card holder") of the United States; or (iii) have been admitted to the United States as a refugee, or have been granted asylum, provided that you have applied for naturalization within six months of the date you first became eligible, and if not yet accepted, you are actively pursuing naturalization after two years from the date of your application.

Gladiator Technologies is an Equal Opportunity Employer and Drug Free Workplace