



Founded in 1978, Trimble is a recognized worldwide leader in the development of innovative Global Navigation Satellite Systems (GNSS) technology-based products for a wide range of applications and industries ranging from agriculture, construction and engineering, to transportation and wireless communications infrastructure. With a current revenue in the region of US\$ 3 billion and more than 8500 employees in more than 30 countries around the world, Trimble is an exciting, entrepreneurial company with a history of exceptional growth coupled with a disciplined and strategic focus on being the best.

We offer you the thrilling opportunity to join our R&D team focused on developing new software products for the positioning market. Bring your specialized skills and entrepreneurial spirit and make your future with us in this newly created position based at our R&D center in Höhenkirchen near Munich, Germany. We are an international team with more than 80 colleagues from 19 countries and six continents.

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GNSS/INS R&D Software Engineer

You will be responsible for developing new and enhancing existing positioning software solutions. Success in this position involves working effectively in the development team with other experts, and demonstrating a set of fundamental software engineering skills that result in predictability in engineering, scheduling and the quality of products developed.

Key Responsibilities are:

- Research and development towards a robust and reliable positioning solution targeting automobiles using GNSS, MEMS based IMU, odometry and magnetometer sensors with the final goal to provide a positioning solution in the context of autonomous driving;
- Conceptual research and design of alternative Kalman filter and navigator concepts and the possible real-time fusion of these;
- Prototyping of new navigation solutions as well as writing production code for sensor fusion;
- Development of integrity information for Trimble's multi-sensor solution with the goal to provide reliable position, velocity, and quality information. This includes the development of mechanisms to fulfil the requirements of the automobile industry on alert and probability limits, fault tolerant time, and integrity protection limits;

Other Responsibilities:

- Editing and revising detailed technical design documents to accurately describe the components to be developed;
- Explain and document major design decisions and their rationale to technical and non-technical audiences;
- Being able to work effectively as part of a development team with minimal supervision; work on all other software development tasks as assigned.

Skills & Experience Required:

- University degree (MSc or PhD) with focus on navigation and Kalman Filtering using inertial and GNSS sensors;
- Excellent experience in C++ and Matlab;
- Passion for object-oriented design and clean code as efficient means to port your ideas to successful products;
- Excellent English language proficiency;
- Ability to adapt well to changing priorities in a fast-paced development environment;
- Preferably multi-year experience in navigation with IMU sensors and precision positioning related GNSS software development, preferable in the area of RTK and/or PPP.

The opportunity to join an international team along with the steady launch of tailor-made new products keeps your skills and knowledge updated. Our vibrant innovation culture combined with the chance to be part of an excellent performing, market-leading global hi-tech company makes this rare career opportunity too good to miss.

If you are interested in this position, please forward your English CV to:

Email: terrasat_info@trimble.com

All applications will be treated strictly confidentially.