



**Workbench Consulting LLC**  
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# Senior Software Developer Job Description

## Company Overview

Workbench Consulting LLC is an Austin-based company that will provide IT and software development services. The company is focused on addressing the pressing challenges of processing and analyzing large-scale LiDAR surveying data. The sheer volume of data generated in a single survey can reach terabytes, which presents significant obstacles in terms of data storage, transfer, and especially data processing and analysis. This complexity often impairs clients' ability to manage, visualize, and ultimately make informed decisions based on the data collected.

By providing tailored software solutions, Workbench Consulting ensures faster turnaround times for data processing, enhancing the reliability and utility of surveying data. This includes the transformation of raw LiDAR point clouds into actionable models and maps, which support decision-making in fields such as engineering, government planning, and environmental assessment.

**Position:** Office Assistant / Administrative Accounting Assistant

**Location:** Austin, Texas

**Job Type:** Full-Time

## Job Summary

We are looking for an experienced Programmer to translate client requirements into robust, high-quality, and scalable software. This role involves full lifecycle software development, from analysis and design to coding, testing, and deployment.

The ideal candidate will have strong technical prowess as well as experience in geospatial applications, especially mobile surveys (i.e., GNSS/Inertial processing, georeferencing, sensor calibration, block bundle adjustment etc.).

## Key Responsibilities

- **Understand Client Needs:** Collaborate with business analysts and clients to gather insights, understand requirements, and translate them into detailed technical specifications.



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- **Software Development:** Design, code, test, and maintain software applications using C++, Python and Rust.
- **Consultation and Collaboration:** Work closely with customers on technical issues and improvements, ensuring solutions align with business objectives.
- **Quality Assurance:** Conduct thorough testing and debugging to ensure error-free, reliable, and secure software performance.
- **Documentation and Support:** Maintain documentation of software deployed to customers, provide technical support and training to clients and end-users as needed.

#### Qualifications & Skills

- **Education:** Bachelor's degree in Computer Science, Software Engineering, or a related field.
- **Experience:** Minimum of 5 years of hands-on experience as a Programmer, Software Developer, or similar role. Consulting experience is a plus.
- **Technical Skills:**
  - Proficiency in at least one of C++, Python or Rust.
  - Experience in Computational Geometry, applied preferably in low-level algorithms that scale with available computing resources on both CPUs and GPUs (using e.g. Eigen, CUDA or other libraries/APIs)
  - Experience in nonlinear least-squares optimization, e.g. using ceres-solver, OneAPI's pardiso or other implementations
- **Soft Skills:**
  - Excellent problem-solving, analytical, and critical thinking skills.
  - Strong communication and interpersonal skills, with the ability to explain technical concepts to non-technical stakeholders.
  - A desire to achieve correctness first, speed second.

## How to Apply

Interested candidates should submit a resume and cover letter detailing their relevant experience and interest in a consulting environment to [info@workbench-consulting.com](mailto:info@workbench-consulting.com).