



Senior Optimization Software Developer

Role Overview

We are seeking a hands-on **Senior Optimization Software Developer** to design, build and support industrial optimization applications used in sawmills. You will take ownership of complex product work, provide technical guidance to developers on our East Coast team, and work with both our East Coast and West Coast leadership teams on system architecture, software releases and customer installations.

What You'll Do

- Design, develop and review C# and .NET services, optimization applications, scanner and geometry workflows, production tools and Blazor user interfaces.
- Build reliable asynchronous workflows using gRPC, Protobuf, hosted services and dataflow patterns.
- Translate sawmill process requirements into maintainable optimization logic, configuration models and production-data workflows.
- Develop leading-edge solutions, including mathematical algorithms for specific optimization engines.
- Lead difficult troubleshooting across applications, databases, industrial networks, PLC interfaces, scanners and site configuration.
- Support selected commissioning activities when senior technical judgment is needed for release risk, integration problems or escalations.
- Mentor intermediate and junior developers through design reviews, code reviews, pairing and practical documentation.
- Improve automated testing, diagnostics, performance, recovery behaviour and deployment readiness.
- Coordinate technical decisions and knowledge sharing with the established West Coast development team.

What You Bring

- Strong professional experience developing production software in C# and modern .NET.
- Proven ability to own complex systems from design through release, diagnosis and long-term support.
- Experience with distributed services, asynchronous programming, APIs and relational databases.
- Systematic troubleshooting skills using logs, measurements, controlled tests and clear problem isolation.
- Ability to communicate design tradeoffs and provide useful technical guidance without requiring formal authority.
- Strong mathematical, geometric and spatial reasoning for developing optimization algorithms.
- Ability to travel to industrial customer sites and work safely in active sawmill environments when required.

Experience That Will Set You Apart

- Industrial automation, optimization, manufacturing or sawmill software.
- ASP.NET Core, Blazor, gRPC, Protobuf, Entity Framework Core, PostgreSQL, SQL Server or SQLite.
- PLC or ControlLogix integration, laser scanners, encoders, production networks and field commissioning.
- Computational geometry, numerical methods, point clouds, 3D visualization or machine vision.
- Automated testing, Git-based delivery and production diagnostics.

Work Location & Travel

The position is associated with our **Lindsay, Ontario** office. Lindsay and surrounding-area candidates are preferred, but remote work is available for proven self-starters. Periodic office time in Lindsay is preferred.

Travel for this senior role is limited and is primarily required for complex system startups, higher-risk software releases, troubleshooting and escalated customer support. Travel is typically no more than approximately 1.5 weeks within a two-month period, with senior developers generally travelling less frequently.

Whenever possible, travel is scheduled with at least 1.5 to 2 weeks' notice. However, urgent customer situations may occasionally require travel on shorter notice. All required travel expenses are covered by the company.

About Us

TS Manufacturing is a family-owned Canadian company and global leader in automated machinery for the sawmill and bulk material handling industries.

Our optimization team develops industrial software for sawmill processes including trimmers, board edgers, gangs, log lines, merchandisers, slab systems and course-makeup equipment.

Applicants are encouraged to view the website, www.tsman.com as well as our YouTube channel <http://www.youtube.com/user/tsmanufacturing>.

Why Work With Us?

At TS Manufacturing, you're not just a number — you're part of the team. We offer:

- Base salary of \$125,000 to \$150,000 per year, based on relevant experience and demonstrated capabilities.
- Commissioning work paid at hourly rates, including applicable overtime and site bonuses.
- Company pension & comprehensive benefits (health, dental, disability, life)
- Overtime after 40 hours
- Modern, well-equipped manufacturing and assembly facilities
- Career growth and training opportunities in a family-oriented, global company

Apply Today

Please submit your resume and a short note describing the experience most relevant to this position to: Careers@TSman.com