

Junior AI and Computer Vision Developer

Role Overview

We are looking for a **Junior AI and Computer Vision Developer** to help advance computer vision, 3D geometry and AI capabilities within our sawmill optimization products. The successful candidate will work under senior technical guidance on real industrial data and product integrations. The emphasis is on sound engineering, careful experiments and measurable improvements rather than research in isolation.

What You'll Do

- Prepare and document image, scan, point-cloud and production datasets for development and validation.
- Build repeatable vision and machine-learning experiments with defined inputs, metrics and results.
- Develop Python tools and, with guidance, integrate useful capabilities into C# and .NET products.
- Evaluate model and algorithm behaviour across changing wood, lighting, motion, scanner and site conditions and build tools for improved implementation.
- Help create test datasets, data-quality checks, versioned experiment records and production monitoring methods.
- Develop applications, debug issues, and build tools for vision, geometric optimization and AI recognition.
- Participate in code reviews, technical documentation and limited supervised site validation.

What You Bring

- A diploma or degree, or equivalent practical project experience, in computer science, software engineering, computer engineering, mathematics or a related field.
- Working knowledge of Python and core software-development practices.

- Foundational understanding of computer vision, machine learning, linear algebra and coordinate systems.
- Ability to evaluate results critically, document assumptions and reproduce an experiment.
- Curiosity about industrial equipment and willingness to learn sawmill processes, optimization and production constraints.
- Clear communication, good data-handling habits and willingness to ask for technical review.
- Ability to travel occasionally and work safely in active industrial environments with supervision.

Experience That Will Set You Apart

- OpenCV, PyTorch, TensorFlow, scikit-learn, NumPy or related scientific-computing tools.
- 3D geometry, point clouds, camera or laser calibration, 3D visualization toolsets.
- C# and .NET, APIs, gRPC and relational databases.
- A co-op placement, capstone, portfolio or personal project showing careful computer-vision or machine-learning work.
- Manufacturing, forestry, wood products, robotics or industrial automation exposure.

Work Location and Travel

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

Travel is limited and normally supervised. It may include short visits for data collection, calibration, test planning or production validation. Whenever possible, travel is scheduled with at least 1.5 to 2 weeks' 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 our 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 \$75,000 to \$95,000 per year, based on relevant experience and demonstrated capabilities.
- When the role participates in commissioning, that time is paid at hourly rates, including applicable overtime and site bonuses.
- All required travel expenses covered by the company.
- 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