JOB DESCRIPTION

MANUFACTURING ENGINEER

CNC MACHINING, FABRICATION & QUALITY

LOCATION	2180 Perry Lane Rd, Suite 105, Brunswick, GA 31525 (on site)
DEPARTMENT	Manufacturing Engineering
REPORTS TO	Engineering Manager
TYPE	Full time, exempt
OPENINGS	1
EXPERIENCE	0–5 years. Open to recent graduates of machining and manufacturing technology programs.
COMPENSATION	$65,000 – $90,000 based on experience
RELOCATION	Moving expenses reimbursed up to $5,000 with receipts

1. POSITION SUMMARY

Scojet is hiring a manufacturing engineer to own how parts get made on our Brunswick floor: CNC programming, setup and proveout, fabrication, inspection, and the quality system that holds it all together.

You will program and prove out work on 4-axis machining centers and 5-axis mill-turn machines, run laser cutting and press brake work, and decide whether a part is good enough to ship.

> **THE DESIGNER IS TWENTY FEET AWAY.**
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> **Scojet designs the products it manufactures.** When a part is awkward to hold, expensive to cut or impossible to inspect, you do not file a concession and wait. You walk over to the engineer who drew it and get the geometry changed.

We will train you on SolidCam and its milling, turning, multi-axis and probing modules. The role is open to experienced shop hands and to people just out of a machining or manufacturing technology program. Bring a feel for how metal behaves and the discipline to measure it; the rest we can teach.

2. RESPONSIBILITIES

CNC PROGRAMMING AND MACHINING

- Program parts in SolidCam (milling, turning, multi-axis and probing) inside SolidWorks, developing toolpaths for our 4-axis machining centers and 5-axis mill-turn machines.

- Prove out new programs at the machine: first article, offsets, tool wear and workholding.
- Design and specify fixtures, soft jaws and workholding.
- Select tooling and set speeds and feeds, balancing cycle time against tool life and surface finish. Maintain tool libraries, cutting data and post processors.
- Write setup sheets and work instructions detailed enough that another operator can run the job without you.

FABRICATION

- Program laser cutting, including nesting, sheet utilization and cut parameter development by material and thickness.
- Develop flat patterns, bend sequences and bend allowances, select press brake tooling, and work with the design team on geometry that forms cleanly and holds tolerance.

INSPECTION AND QUALITY

- Perform dimensional inspection using CMM, optical comparator, height gages and hand metrology. Define the inspection method for new parts and document first articles.
- Own the gage calibration program, and maintain our quality management system on the floor: control plans, inspection instructions and records.
- Investigate nonconformances, run root cause analysis, and drive corrective actions to closure.
- Track scrap, rework and process capability, and act on what the data shows.

PROCESS AND CONTINUOUS IMPROVEMENT

- Develop routings, time standards and job travelers, and keep them accurate as processes change.
- Reduce setup and cycle time on repeat work, raise material utilization, and support quoting with realistic time and cost estimates.
- Coordinate preventive maintenance on machine tools, and keep the floor safe and orderly: guarding, lockout/tagout and 5S.

YOUR FIRST 120 DAYS

1. **Weeks 1–4.** You are paired with an experienced machinist. Learn our machines, our parts and our quality system, and begin SolidCam training.
2. **Weeks 5–8.** Program and prove out your first job on a 4-axis center, reviewed with your mentor. Take over first article inspection on active work.
3. **Weeks 9–12.** Move into 5-axis mill-turn programming. Own the gage calibration schedule.
4. **Weeks 13–16.** Own a product family end to end: programming, setup, inspection and quality records.

3. REQUIREMENTS

ESSENTIAL

- Zero to five years in a machine shop or precision manufacturing environment, with an associate or bachelor degree in manufacturing or engineering technology, a machining certificate, or an apprenticeship. Co-ops and shop coursework count.
- Ability to read and interpret engineering drawings. A foundation in GD&T per ASME Y14.5 is expected; formal training is provided.
- Hands-on CNC exposure: setup, offsets, tool changes and running programs at the machine, whether from a job or a school shop.
- Grounding in machining fundamentals: speeds and feeds, tooling, workholding and material behavior.

- Exposure to any CAM system (Mastercam, Fusion, Esprit, GibbsCAM, NX or SolidCam). Coursework-level familiarity is acceptable. We will train you on SolidCam.
- Comfort with hand metrology (calipers, micrometers, height gages) and the willingness to learn CMM programming and inspection documentation.
- Willingness to spend the day on the floor rather than at a desk.

PREFERRED

We hire on aptitude. Nobody arrives with all of this, and none of it is required. If you meet most of the essential list, apply.

- SolidCam or SolidWorks experience; NIMS credentials or SkillsUSA competition
- 5-axis or mill-turn programming and in-machine probing; laser and press brake programming with flat pattern development
- Personal fabrication: home shop, engine or vehicle builds, welding, 3D printing, or anything you made and can explain
- CMM programming (PC-DMIS, Calypso, Verisurf); quality system experience; SPC and root cause tools (8D, 5-why, fishbone)
- Fixture design; machine tool maintenance; Lean or Six Sigma; ERP routing and BOM experience

4. COMPENSATION & BENEFITS

Base salary: $65,000 – $90,000 based on experience.

- **100% of employee health insurance premiums paid by Scojet**, including dental and optical coverage.
- $25,000 company-paid life insurance policy.
- 401(k) with 100% match on the first 3% and 50% on the next 3%.
- Eight paid holidays and two weeks paid vacation.
- Paid training, education and professional certification, including SolidCam training.
- Moving expenses reimbursed up to $5,000 with receipts.

HOW TO APPLY

Submit your resume with one example of your work: a part you programmed, a fixture you designed, a process you fixed, or a photo of something you made. We would rather see one job you can talk through in detail than a list of machines you have stood next to.

APPLY ONLINE	www.scojet.com/jobs
EMAIL	jobs@scojet.com

HIRING PROCESS

1. A 30-minute telephone conversation with the engineering team.
2. A technical discussion. Bring a job you are proud of and walk us through how you made it.
3. An on-site visit to see the shop, meet the team and ask questions.
4. Offer.

First call to decision in under three weeks. Candidates who are not selected are told why.

This description is a general guideline for the role and is not exhaustive of all duties inherent in the job.

ABOUT SCOJET

WHY THIS ROLE IS DIFFERENT

Scojet has been a product design, engineering, prototyping, tooling, testing and precision machining firm since 2001. Our headquarters and engineering center is in Brunswick, Georgia, with manufacturing partner operations in Monterrey, Mexico; Ninghai, China; and Bogotá, Colombia.

In most shops, manufacturing engineering starts when the print arrives and ends when the part ships. Here it starts earlier and reaches further. Because we design what we build, your input on workholding, tolerance and process changes the drawing rather than just the setup. And because our work spans prototype through production, you are not programming the same family of parts every week.

Projects run across automotive, agriculture, aerospace, outdoor power equipment, powersports, medical and consumer products.

TOOLS & CAPABILITIES

CATEGORY	AVAILABLE TO YOU
Machining	4-axis machining centers and 5-axis mill-turn machines, with SolidCam programming integrated into SolidWorks.
Fabrication	Laser cutting and press brake forming, with waterjet, tumbling and sandblasting for finishing.
Prototyping	In-house FDM, SLA, SLS, SLM, binder jet metal printing, PolyJet and silicone casting. No queue and no purchase order.
Inspection	Dedicated inspection laboratory with CMM and hand metrology.
Engineering	SolidWorks with PDM; FEA, mold flow, casting flow and sintering simulation used by the design team down the hall.

TRAINING & MENTORSHIP

- **Paid SolidCam training.** We expect to invest in getting you fluent across the modules you will use.
- **Funded certification.** Continuing education, quality and metrology certifications are paid. Tell us what you want to learn.
- **Real ownership early.** You own processes end to end rather than a narrow slice of them.

BRUNSWICK, GEORGIA

We sit on the Georgia coast, minutes from St. Simons and Jekyll Island. Housing costs a fraction of Atlanta, Charlotte or Detroit and the commute is about ten minutes.