



AUTOMATIC PRECISION, INC.



MANUFACTURERS OF SWISS PRECISION TURNED COMPONENTS SINCE 1976

POSITION OPENING

CNC Swiss Programmer / Setup Machinist

LOCATION	TYPE	SHIFTS	APPLY
Harwood Heights, IL 60706	Full/Part-Time	Day & Night Available	hr@automaticprecision.com

COMPANY INFORMATION

Automatic Precision, Inc. (API) is a family-owned, ISO 9001:2015 certified Swiss CNC precision machining facility founded in 1976 and located in Harwood Heights, Illinois — just minutes from Chicago's O'Hare International Airport. Currently operating three buildings totaling 30,000 sq. ft. with over 200 machines across 10 manufacturing departments, API is one of the largest manufacturers of Escomatic and CNC Swiss precision parts in the United States. We specialize in connectors, electrical contacts, and custom turned components serving aerospace, medical, electronics, defense, fluid power, and numerous other industries across the U.S., Canada, and Mexico.

POSITION SUMMARY

Automatic Precision, Inc. is seeking a highly skilled CNC Swiss Programmer / Setup Machinist to join our Swiss CNC Department. In this dual role you will be responsible for writing and editing CNC programs, performing complete machine setups, and producing first-article approved precision turned components on our fleet of Citizen, STAR, and Nexturn Swiss CNC lathes. You will work closely with engineering, quality, and production leadership to develop efficient, reliable programs and setups that meet customer specifications and production targets.

ROLES & RESPONSIBILITIES

- **CNC Programming:** Write, edit, and optimize CNC programs (G-code/M-code) for Swiss-type CNC lathes including Citizen A-20, L-20, L-32, B12, K-16E, STAR SR-20, and Nexturn SA-20E models
- **Machine Setup:** Perform complete machine setups including tooling selection and installation, offset entry, bar feed setup, guide bush adjustment, and material loading
- **First Article:** Run and inspect first-article parts against engineering drawings and customer specifications; document all results and obtain required approvals before releasing to production
- **Production Support:** Monitor production runs, support operators with quality issues, and make program or tooling adjustments as needed to maintain dimensional compliance and cycle efficiency
- **Quality Assurance:** Use precision measuring instruments including micrometers, calipers, bore gauges, optical comparators to verify part dimensions, tolerances, and GD&T callouts
- **Troubleshooting:** Diagnose and resolve programming errors, tooling issues, bar feed problems, and machine malfunctions; implement solutions quickly to minimize downtime
- **DFM Support:** Collaborate with engineering to review new part designs for manufacturability and provide programming and tooling recommendations before production launch
- **Documentation:** Maintain organized program libraries, setup sheets, tooling records, and first article documentation for all active jobs
- **Maintenance:** Perform routine preventive maintenance on Swiss CNC machines and maintain a clean, safe work cell

SKILLS & QUALIFICATIONS

- High school diploma or equivalent required; technical degree or vocational training in CNC machining or manufacturing engineering preferred
- Minimum 3 years of experience programming and setting up Swiss-type CNC lathes (Citizen, STAR, Tornos, or equivalent) in a production environment
- Proficiency writing and editing G-code and M-code programs; experience with conversational programming at the machine control a plus
- Ability to read and interpret complex engineering blueprints, technical drawings, and GD&T callouts per ASME Y14.5
- Hands-on proficiency with precision measurement instruments: micrometers, calipers, bore gauges, plug gauges, and optical comparators
- Strong understanding of Swiss machining principles including guide bush vs. guide bushless setups, live tooling, and sub-spindle operations
- Knowledge of cutting tool geometry, carbide insert grades, and tooling strategies for small-diameter turning, threading, and drilling operations
- Excellent troubleshooting skills with the ability to identify root cause and implement effective solutions independently
- Strong attention to detail, high standards for quality, and commitment to first-time-right setups
- Good communication and collaboration skills across production, quality, and engineering teams

BENEFITS

- Competitive salary commensurate with experience and qualifications — programmer/setup role commands premium compensation
- Medical insurance available
- Day and nighttime shifts with overtime opportunities
- Paid time off and holidays
- Work on a diverse range of complex parts across aerospace, medical, electronics, and defense applications
- Stable, family-owned company celebrating 50 years in business
- Opportunities for growth into senior machinist, lead, or engineering roles

WORK ENVIRONMENT

API's Swiss CNC Department operates 24 hours a day, 5 days a week and houses 34 Citizen, STAR, and Nexturn Swiss CNC lathes across multiple models. CNC Programmers / Setup Machinists work at the machine and at a programming workstation, collaborating closely with the quality department and production supervisors.

PHYSICAL DEMANDS

- Ability to stand and move on a production floor for extended periods
- Ability to lift tooling and materials up to 50 lbs
- Manual dexterity and fine motor control for tooling installation and precision measurement
- Regularly bending, reaching, and working at machine controls
- Ability to work in a manufacturing environment with exposure to machine noise, cutting fluids, and metal chips

Ready to Join the API Team?

Email your resume to hr@automaticprecision.com or stop by our office:
4609 N. Ronald Street, Harwood Heights, IL 60706 | (708) 867-1116

