PERKINS PRECISION DEVELOPMENTS

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About Us

Perkins Precision Developments (PPD), established in 2009, is a leading manufacturer of high-performance optical components located in Mead, CO—just 30 minutes north of Denver. Our team brings over 100 years of combined experience in the photonics industry. We specialize in custom laser optics including wedged windows, laser mirrors, beam splitter cubes, lenses, prisms, and polarizers for demanding applications in Directed Energy, space systems, quantum research, and industrial processing. With in-house fabrication, super-polishing, IBS coating, and precision assembly, PPD delivers advanced optical solutions tailored to exact customer specifications.

Position Summary

PPD is seeking a detail-oriented **Fabrication Technician** to join our team. This is a hands-on role where you will be trained to fabricate precision optical components using a variety of processes and equipment. Ideal for candidates interested in building a long-term career in optics or precision manufacturing. As needed you will receive training to perform various tasks required for the fabrication of precision optical components, such as beveling, grinding, polishing, sawing, and drilling.

Responsibilities

- Fabricate and process precision optical components using techniques such as beveling, grinding, polishing, sawing, and drilling
- Inspect and test products in accordance with MIL and/or ISO specifications
- Interpret work instructions, mechanical drawings, and optical prints
- Operate and maintain fabrication equipment
- Perform visual and dimensional inspection using microscopes, interferometers, autocollimators, calipers, and micrometers
- Handle fragile optical components with care
- Maintain accurate records, logs, and documentation
- Keep work areas clean, organized, and compliant with cleanroom standards
- Basic shaping and fabrication of medium-difficulty components
- Beveling (polished, double, and off-angle)
- Blocking techniques (pitch button, cold blocking, Norland transfer, alignment)
- Grinding (steep radius, cylinders, wedge components)
- Polishing (spindle, double-sided, CNC polishing)
- Slurry maintenance (monitoring Baume and pH levels)
- Pouring and preparing pitch laps
- Reading and interpreting detailed fabrication specifications
- Performing optical measurement and inspection (Zygo, fringe patterns, surface quality)
- Perform other duties as assigned

Required Qualifications

- Strong attention to detail and commitment to quality
- Ability to read and follow technical drawings and instructions

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- Reliable attendance and strong work ethic
- Ability to work independently after training
- Good communication and teamwork skills
- Interest in developing a career in optics manufacturing

Preferred Qualifications

- Experience in optical fabrication or precision manufacturing
- Familiarity with grinding, polishing, beveling, and inspection processes
- Ability to read mechanical drawings and optical specifications
- Experience with precision measurement tools (microscopes, interferometers, calipers, etc.)
- Knowledge of ISO/MIL standards and cleanroom practices is a plus
- Strong attention to detail, mechanical aptitude, and teamwork skills

Work Environment

- Cleanroom and manufacturing environment
- Hands-on work with specialized equipment
- Detail-focused, quality-driven production environment

Compensation & Benefits

- Starting pay: $23.00 per hour (based on experience)
- Health insurance
- Dental insurance
- Retirement plan
- Paid time off
- Parental leave
- Flexible schedule

Additional Requirements

- Must be a U.S. Citizen or lawful permanent resident (ITAR compliance)
- Ability to commute to Mead, CO (required)
- This is an in-person position

Perkins Precision Developments must comply with the International Traffic in Arms Regulations (ITAR) issued by the US Dept of State, Directorate of Defense Controls. Because of ITAR, PPD limits employment to US citizens or lawful permanent residents of the United States.

Equal Opportunity Employer
Perkins Precision Developments is an Equal Opportunity Employer committed to creating an inclusive workplace.