

## Corning Advanced Optics - Precision Engineer

Scope of Position: Concurrently with the product development team, define, develop and deliver the lowest cost diamond turning and finishing processes for the production of precision optical elements.

- The focus of this role is developing new diamond turning optical fabrication capabilities that do not currently exist in the manufacturing plant, but are needed to meet new product design requirements.
- Process Development Engineers are key members of the product development teams, starting with program launch, to enable early involvement of concurrent engineering product and process engineering.
- Process development is accomplished in a consistent, standardized manner utilizing a knowledge center of best practices and DF/X methodologies.
- Engage the plant receivers (process engineering, operations associates, quality, supply chain, etc.) during the development phase through informal and formal design reviews.

Day to Day Responsibilities:

- Specify new manufacturing capabilities via development of new techniques, equipment, tools, fixtures and test equipment.
- Responsible for pre-transfer (prototypes & pilots) build quality and delivery commitments.
- Develop required documentation such as process flow charts, work instructions, process sheets, checklists, forms, etc.
- Train first round of manufacturing personnel on new capabilities.
- Protect intellectual property by documenting key competitive information.
- Stay current with the latest manufacturing trends in diamond turning/optical fabrication industry and seek out the appropriate experts when needed.
- Assess existing manufacturing capability gaps and recommend development activities.
- Champion the use of DF/X tools on product development teams
  - Provide expertise on the implementation and execution of DF/X principles and tools, facilitating their correct use. Identify opportunities to add new or improve existing DF/X tools and develop as appropriate.
  - Consider lowest production costs with design alternatives
  - Attempt to eliminate manufacturing/assembly waste with product design
  - Ensure products are designed for stable processes that are already in use; if current processes do not meet new requirements, develop new processes concurrently during product development.
  - Update and maintain design guidelines.
- Compile Cost Estimates for quoting, staffing plan, and resource scheduling.
- Participate in design reviews for all new product developments.

Required Skills:

- Ideal candidate would have extensive experience in fabrication and testing:
  - Reflective & refractive optical elements such as spheres, aspheres, freeforms and prisms
  - Diamond-turned metal substrates, crystals and optical glasses
  - Programming of CNC equipment
  - MRF and Zeeko deterministic finishing
  - Interferometric component metrology
  - Characterization of surface roughness, profilometry, goniometry
- Aptitude to learn technologies not familiar with
- Ready, willing and able to be hands-on
- Strong communication skills, written, verbal and presentations
- Critical thinking to rapidly solve problems
- Confidence in interaction with all levels of the organization (Production techs to Sr. Leadership)
- Ability to function on a product development team of multi-disciplinary engineers.

Primary Location: Keene Plant, Keene, NH

Travel Requirements:

10%. Typical travel includes training, networking opportunities, customer & supplier visits, and benchmarking activities as required.

Hours of work:

Typical first shift production hours, M-F, 8am-5pm. Extra and off hours may be required during times of heightened project activity in order to meet deliverables.

Required Education: Minimum BS degree in an engineering field such as Optical, Mechanical or Manufacturing.

Required Years and Area of Experience: 5+ years of experience in precision optical fabrication

Hiring Manager: Ken Woodard

HR Manager: Denny Hylton

Band: C/D

Candidate Identified: No

Desired Corning Specific Skills/Training: Certified Innovation Belt, Certified PEx Green/Black Belt, Lean Fundamentals, Basics of Mfg, Mfg Excellence Model, MEE, KT Problem Solving Tools

Keywords: Satis LOH, Schneider, OptoTech, QED, MRF, Zeeko, Optipro, Zygo, Moore Nanotech

Interested applicants can contact: David Watkins ([watkinsd@corning.com](mailto:watkinsd@corning.com))  
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