

Job Description

Job Role: Prototype Technician

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The purpose of this role is to support the companies prototyping and onboarding activities for NPI and OEM business growth.

This position reports to our Operations Director.

About this role

As a Prototype Technician you contribute to team to success by:

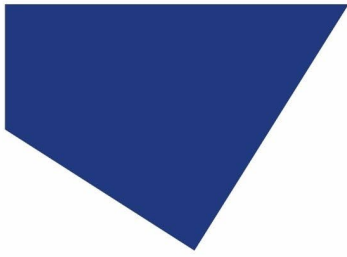
- Following all relevant Quality, Health, Safety and Environmental processes
- Collaborate with Engineers to build and test prototype assemblies, components, and systems based on specifications, drawings, and work instructions.
- Provide feedback to the engineering team to improve manufacturability, performance, and cost-effectiveness of new designs.
- Modify and rework prototypes based on iterative design changes, troubleshooting issues as they arise.
- Support design-for-manufacture activities, including evaluating assembly processes, tolerances, and material suitability.
- Assist in creating and refining assembly documentation, procedures, and test protocols.
- Liaise with the production team to ensure successful transfer of prototype designs into scalable, repeatable production builds.
- Operate and maintain tools and equipment including precision mechanical, electrical, and optical instruments as required.
- Maintain detailed records of prototype builds, changes, and test results.
- Support procurement and inventory of prototype components and materials.

How do you make an impact?

As a Prototype Technician you are a critical link between innovation and reality. Your hands-on work directly accelerates the development of next-generation scientific instruments by transforming design concepts into functional, testable prototypes.

You will:

- Bridge the gap between engineering and production, ensuring that every design is practical, manufacturable, and reliable at scale.



- Influence design decisions by providing insights during prototyping—catching potential issues early, suggesting smarter assembly approaches, and championing simplicity and efficiency.
- Reduce time-to-market by supporting rapid iteration cycles and helping to streamline the transition from prototype to full-scale production.
- Raise product quality by identifying and helping to resolve mechanical, electrical, or integration challenges before they reach manufacturing or customers.
- Empower the production team with clear build processes and hands-on knowledge transfer, leading to smoother product launches and fewer build errors.

In short, your contribution will be essential to delivering high-performance instruments that meet our customers' exacting standards—and to maintaining CoolLED's reputation for excellence in design and manufacturing.

We think this position is right for you if...

- You have proven experience in a prototyping, R&D, or manufacturing technician role, ideally within scientific instruments or precision engineering environments.
- Strong mechanical and/or electro-mechanical assembly skills, including soldering, wiring, testing, and calibration.
- Ability to read and interpret engineering drawings and specification documents.
- Understanding of design-for-manufacture principles and production workflows.
- Excellent problem-solving skills and attention to detail.
- Strong communication and collaboration skills across engineering and production teams.

This position is based at our headquarters in Andover. Staff are expected to be willing to travel as their role requires to visit customers and partners worldwide.

CoolLED's Mission

To advance science and industry with cutting-edge, solid-state illumination systems that transform optical inspection and imaging research to better people's lives

Our Values

Ambitious



in what we plan to achieve

Committed



to deliver our ambitious plans

Supportive



of our customers, each other and the environment

Innovative



in how we solve challenges