



High Vacuum Process Engineer

Location: Gaithersburg, MD

Full-time

Permanent

About Excelitas Noblelight

As an expert and world market leader for specialty light sources and systems, we make light in the wavelength range from UV to IR productively usable - for industry, science, environmental protection and health. With sophisticated light sources, Excelitas Noblelight provides its customers with new competitive advantages and continuously opens up new applications!

We are aware of our responsibility towards people and the environment and have set ambitious targets in terms of CO₂ reduction, sustainability, diversity and inclusion, which are at the heart of all our business activities.

Become part of our team and shape the future with us. We look forward to meeting you!

Your tasks:

- Perform processes such as Pressure Tsing product, RGA Leak Checking, running exhaust pumps, high vacuum, and gas backfilling in a fast-paced production environment.
- Mount lamps to manifolds to backfill to a certain pressure.
- Develop SOPs for the safe and efficient production of thermoformed parts.
- Participate in technical review of final design documents and drawings including Process Flow Diagrams, Control/Logic Diagrams, Process & Instrumentation Diagrams, Technical Specifications, analysis, calculations, and other design documentation.
- Direct operation for the vacuum brazes furnace to produce desired properties of complex assembly.
- Research and investigate the science behind products to improve existing optical systems.
- Develop and review contamination control plans, formulated mitigation strategies and conducting material analysis.
- Coordinate and perform thermal bake out and vacuum test for hardware and science instruments.
- Troubleshoot manufacturing issues and implement solutions to support bulb manufacturing efforts.
- Design and develop mechatronic systems and automation process for the manufacturing of ultra-high vacuum components, considering quality, efficiency, and scalability.
- Update documentation to capture current process or correct documentation errors.
- Oversee the work of technicians, operators, assemblers, and others working in bulb shop scientific or engineering function area.
- May train production personnel in proper techniques for processing and/or assembling materials and units.

Curious? Apply now!

We look forward to receiving your application documents via our recruiting mailbox at: Mikayla.lebel_external@heraeus.com - even if you do not meet all the requirements, but have good reasons why you are still the right person for this role!

Any questions? Our recruiting team, Excelitas Noblelight, will be happy to answer your questions by e-mail:

Mikayla.lebel_external@heraeus.com



- Combine mechanical and electrical elements by sensing and actuation, as well as control systems and software.
- Support all new automation manufacturing technology projects, continuous improvement efforts, and standardization.

Your profile:

- B.S. in Science, Chemistry, Engineering, or equivalent with experience using SolidWorks, AutoCAD, TurboCAD, or similar.
- Requires 5+ years of progressively responsible process experience, or other equivalent training and experiences.
- 3+ years of high vacuum experience in a science or lab environment.
- Prior experience in mechatronics and robotics management within manufacturing or laboratory environment.
- Manufacturing experience a plus.
- Ability to work independently or as part of a team in a safe and productive manner.
- Expertise with vacuum infusion and experience developing, improving, and modifying manufacturing processes for composite products.
- Specialized training in vacuum technology and electrical testing
- Expertise with high vacuum hydrogen furnaces, high vacuum furnaces, and contamination elimination

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