



Process Development Engineer - New Product Development

Location: Minneapolis-St. Paul

Optomec is the world-leading provider of additive manufacturing systems for high-performance applications in the Photovoltaic, Electronics, Biomedical, and Aerospace & Defense markets. The company has a global customer base of industry-leading manufacturers.

We are building a Twin Cities-based product development team with the mission to take our breakthrough Aerosol Jet technology to production scale, and deliver a rapidly expanding portfolio of rock-solid industrial solutions.

This is an awesome opportunity to become part of an elite team in a skunk-works-type atmosphere, and get in on the ground floor of a cutting-edge technology with incredible growth potential.

Responsibilities

- Develop Aerosol Jet additive manufacturing systems, including nanoparticle-ink handling, aerosol generation and transport, thermal control and mechatronics sub-systems.
- Optimize system performance and reliability
- Coordinate system architecture development, and deployment of overall product requirements to component-level engineering specifications
- Perform system/process modeling and analysis to demonstrate performance virtually
- Develop system testing and validation protocols, and coordinate systematic problem solving including root-cause analysis, DoE and multivariate statistical analysis
- Perform hands-on system testing, in-house and in the field, and supervise technicians
- Produce product documentation and test reports
- Interface professionally with suppliers and customers

Qualifications

- US citizen or permanent resident
- MS in Chemical, Systems or Mechanical Engineering plus at least 5 years' experience in systems engineering or process development; other degrees may be considered if complemented with additional relevant experience and achievements
- Expert in statistical analysis, design of experiments, system modeling, process control, root-cause analysis, and defect and failure-mode analysis
- Outstanding teamwork and communication skills, and high leadership potential
- Exceptional energy, technical insight, creativity and perseverance
- Strong work ethic, multi-functionality and willingness to pick up a wrench, soldering iron or shovel as needed

Additional preferred skills

- Six Sigma Black Belt



Additive Manufacturing Systems — from Nano to MACRO™

- Aerosol mechanics, solvents and nanoparticles
- Electronics manufacturing, other high-volume manufacturing, clean-room manufacturing