

Principal Coating Engineer

Murrieta, CA, United States

JOB DESCRIPTION

Primary Duties & Responsibilities

Advanced Technology Development: Exhibits an exceptional degree of ingenuity, creativity and resourcefulness to develop highly advanced technologies, scientific principles, theories and concepts. Extends EEO knowledge base and technical capabilities in the field of optical coating technology. Develops advanced coating technology resulting in new product/business opportunities for the company. Serves as technical consultant to management for long-term business planning related to technology development. Plans R&D projects, troubleshoots critical processes, and provides technical expertise and guidance to the coating engineering department. Represents EEO as the principal expert in the field of optical coating technology.

Coating Engineering: Leads technical teams and coordinates engineering activities for design, development, and implementation of new thin film coating products and manufacturing processes. Responsibilities include all aspects of thin film coating engineering including coating design, tooling design, process development, qualification, and process documentation, and support of coating operations including substrate cleaning, deposition, inspection, and characterization. Serves as the Process Owner for EEO thin film coating processes and equipment including implementation of process controls, "hands-on" monitoring of process parameters, data collection and analysis of process variables, and support of preventative maintenance programs and repairs for coating equipment. Supports program management and operations personnel with technical guidance on assigned projects. Ensures that design concepts comply with customer's specifications and are manufacturable. Supports acceptance testing, qualification testing, and troubleshooting efforts on assigned programs. Participates in configuration control (CCD), change control (ECO, NOR, RCN), and MRB activities to support assigned programs. Adheres to program financial goals and provides financial estimates and status updates to program management.

Business Development: Supports technical meetings with customers and writes technical proposals for development of new business. Assists the estimation group in evaluating technical requirements, identifying exceptions, and preparing cost estimates for customer quotes.

Personnel Development: Provides guidance and training to coating engineers on assigned projects. Provides feedback through coaching and mentoring. Provides administrative and technical support to engineering management.

Education & Experience

- Minimum MS degree, Ph.D. preferred, in engineering or related discipline, preferably in physics, optics, electrical or mechanical engineering.
- 20 years minimum thin film coating engineering experience, preferably at an aerospace company.

Skills

- Strong verbal and written technical communication skills.
- Computer skills in word processing and spreadsheet software, including MS Word, Excel, Access, some CAD (Solidworks preferred), to support requirements for technical reports and analytical studies.
- Strong hands-on experience in multiple conventional thin film deposition technologies (thermal and electron-beam evaporation, sputtering, chemical vapor deposition) including tooling design. Must possess a thorough understanding of the physics and practical mechanics of these processes.
- Strong hands-on experience in pre-coat substrate cleaning methodologies.
- Strong hands-on experience in characterization of coating performance.
- Strong hands-on experience in coating design using a conventional software package.
- Must be capable of reading blueprints.
- Experience in process design, development and project planning is desired.
- Ability to lead technical program presentations internally and for customers.
- Strong analytical, fault isolation and problem solving skills. DOE and SOE experience strongly desired.
- Strong organizational skills and attention to details required.
- Experience in preparing and maintaining drawings, procedures, process routers and Bills of Materials with full documentation and configuration control.
- Broad coating engineering experience and process expertise.
- Strong technical leadership skills and intuitive ability to develop advanced coating technology.

Safety Requirements

All employees are required to follow the site EHS procedures and II-VI Corporate EHS standards.

Quality and Environmental Responsibilities

Depending on location, this position may be responsible for the execution and maintenance of the ISO 9000, 9001, 14001 and/or other applicable standards that may apply to the relevant roles and responsibilities within the Quality Management System and Environmental Management System.

Culture Commitment

Ensure adherence to company's values (ICARE) in all aspects of your position at II-VI:

Integrity – Create an Environment of Trust

Collaboration – Innovate Through the Sharing of Ideas

Accountability – Own the Process and the Outcome

Respect – Recognize the Value in Everyone

Enthusiasm – Find a Sense of Purpose in Work

To conform to U.S. Government export regulations (ITAR), applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8. U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

II-VI is an equal opportunity/affirmative action employer. All qualified applicants will receive consideration for employment without regard to sex, gender identity, sexual orientation, race, color, religion, national origin, disability, protected Veteran status, age, or any other characteristic protected by law.

ABOUT US

II-VI is a global leader in engineered materials and optoelectronic components and is a vertically integrated manufacturing company that develops innovative products for diversified applications in the industrial, optical communications, military, life sciences, semiconductor equipment, and consumer markets. II-VI provides a comprehensive career development platform within an environment that challenges employees to perform at their best, while rewarding excellence and hard-work through a competitive compensation program. It's an exciting opportunity to work for a company that offers stability, longevity and growth. Come Join Us!