

Personnel Qualifications

Development of Optical Materials and Sciences (DOMS)

12 April 2022

Personnel Qualifications

The Naval Research Laboratory (NRL) established a representative matrix of the labor categories and skills to which the contractor shall propose. Any required resumes shall use the same labor category headings to relate the experience of the candidates to the standards set forth below. If the contractor uses a labor category terminology other than that used in this provision, the contractor must provide a matrix clearly relating their proposed labor categories to those in the provision. Detailed security requirements are delineated in the issued DD 254s relevant to this contract. (Ref SOW Section 4.1).

The qualifications required for each of the labor categories including experience levels and any degree equivalents are as follows:

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Research Scientist Level II

Position Requirements

Key Personnel: NO
Security Clearance: SECRET
Degree: BS
Degree Field: Engineering or other technical field
Degree Field Desired: Materials Science
Experience: 5 years providing scientific, engineering and technical support to advanced technology research, development, test, and evaluation programs for navy/DoD optical materials, electro-optic devices and systems.

Illustrative Assignments

Plan, Schedule, coordinate and conduct fabrication, and perform measurements to characterize optical materials and electro-optic devices. Examples include bulk optics, waveguides and specialty optical devices being developed within the Optical Sciences Division.

EO/IR advanced optics research, development and testing and operation of associated equipment and facilities.

Desired Qualifications

Experience with materials fabrication and characterization tools available in Optical Sciences Division.

Research Scientist Level III

Position Requirements

Key Personnel: YES

Security Clearance: SECRET

Degree: PhD

Degree Field: Engineering or Science

Degree Field Desired: Physics or Materials Science

Degree Equivalent: Master of Science in Engineering plus an additional 3 years of research and development of optical materials and devices under development at DoD research facilities.

Experience: 3 years providing engineering and technical support to advanced technology research in the area of optical materials and devices under development for navy/DoD applications.

Illustrative Assignments

Plan, coordinate and conduct fabrication, measurement and evaluation programs and perform measurements to characterize optical materials in bulk and waveguide configuration, as well as electro-optic devices.

EO/IR advanced materials and devices research, development and testing and operate fabrication and testing facilities.

Experience with the standard computer operating systems, languages and applications in use within the Optical Sciences Division.

Desired Qualifications

Experience with design, fabrication and characterization of optical materials and devices technology.

Research Scientist Level IV

Position Requirements

Key Personnel: YES

Security Clearance: SECRET

Degree: PhD

Degree Field: Engineering or Science

Degree Field Desired: Materials Science or Physics

Degree Equivalent: Master in Science or Engineering plus an additional 10 years of research and development of optical materials and devices under development at DoD research facilities.

Experience: 10 years of experience in scientific and technical research, development, test and evaluation of advanced electro-optic devices and materials in development programs.

Illustrative Assignments

Plan, schedule, coordinate and conduct fabrication, measurement and evaluation programs and perform measurements to characterize optical materials and electro-optic devices.

EO/IR advanced materials and devices research, development and testing and operate fabrication and testing facilities.

Desired Qualifications

Experience with design, fabrication and characterization of optical materials and technology.

Manufacturing Technician Level II

Position Requirements

Key Personnel:	NO
Security Clearance:	SECRET
Degree:	None
Degree Field:	None
Experience:	Shall have at least 3 years experience demonstrating an understanding of manufacturing criteria pertaining to specialty materials, as well as handling equipment suitable for enabling transition to manufacturing.

Illustrative Assignments

Complete materials and devices fabrication procedures.

Perform troubleshooting of materials processing procedures.

Laboratory Equipment Technician Level III

Position Requirements

Key Personnel: NO

Security Clearance: SECRET

Degree: None

Degree Field: None

Experience: Shall have at least 5 years experience in running and maintaining laboratory equipment used in an R&D environment. Examples include furnaces, hot presses, fiber draw towers, sputtering systems, physical vapor deposition systems, glove boxes, spectrometers, and lasers.

Illustrative Assignments

Perform troubleshooting of operational systems within the Optical Sciences Division.

Electrical Technician Level II

Position Requirements

Key Personnel: NO

Security Clearance: SECRET

Degree: None

Degree Field: None

Experience: Shall have at least five years experience in maintenance and trouble shooting of machinery, including hydraulic, pneumatic and electrical systems, HVAC and refrigeration systems, chilled water and high vacuum systems.

Illustrative Assignments

Perform routine maintenance and troubleshooting of systems within Optical Sciences Division.

Program Manager Level IV

Position Requirements

Key Personnel: YES
Security Clearance: SECRET
Degree: BS
Degree Field: Science, Business, Engineering, Physics or Engineering Management or other technical field
Experience: AT least 10 years in acquisition, development and management of the technical aspects of Government projects or DoD R&D programs

Illustrative Assignments

Interface with the Contracting Officer and the Contracting Officer's Representative to ensure satisfactory services are provided on schedule and within cost.

Planning, managing, and supervising the development and acquisition of one-of-a-kind prototype systems for use in a laboratory environment or field testing.

Demonstrate knowledge of the navy R&D process related to the development of technology in Basic Research, Applied Research, Advanced Concept Technology Demonstrations, Joint Capability Technology Demonstrations, and Future Naval Capabilities.