



Photo credit: Lawrence Livermore National Laboratory

Defense and National Security

Industries:

Department of Defense, Aerospace, Marine Engineering and Naval Architecture, Computer and Information Technology, Research Laboratories, Homeland Security, Department of Energy.

Job Titles:	Average Salary:
Remote Sensing Technician	\$44,650
Engineering Technician	\$59,820
Electronics Technician	\$59,820
Avionics Technician	\$56,910
Radar Technician	\$44,650
Sonar Technician	\$44,650

Tasks:

Building, testing, installing, maintaining and repairing radar, laser, guidance, avionics, surveillance, infra-red, warfare and anti-warfare systems.



Photo credit: MIT Technology Review

Advanced Manufacturing and Automation

Industries:

Automotive, Aircraft, Marine Engineering and Naval Architecture, Food or Chemical Processing Plants, Industrial Machinery, Electronic Systems, Semiconductor, Consumer Electronics.

Job Titles:	Average Salary:
Avionics Technician	\$56,910
Photonics Technician	\$61,580
Laser Technician	\$61,580
Electro-optics Technician	\$61,580
Manufacturing Production Technician	\$61,580
Assembler	\$29,910
Testing Technician	\$53,070
Robotics Technician	\$53,070

Tasks:

Building, testing, installing, programming, maintaining and repairing robotic and automation systems in industrial manufacturing plants such as automotive, aircraft, industrial machinery, and processing plants such as food and beverage, chemicals, mines, wood and pulp, and others.



Photo credit: Lawrence Livermore National Laboratory

Analytical Equipment Manufacturing

Industries:

Pharmaceutical, Biochemical, Forensic Science, Environmental Protection Agencies, Industrial Forensics.

Job Titles:	Average Salary:
Photonics Technician	\$61,580
Assembler	\$29,910
Engineering Technician	\$61,580
Testing Technician	\$53,070
Electro-optics Technician	\$61,580
Field Service Technician	\$54,640

Tasks:

Building, testing, installing, programming, maintaining and repairing analytical instrumentation used in environmental monitoring, biochemistry, medicine, etc. Examples are; spectrophotometers, fluorimeters, luminometers, and others.

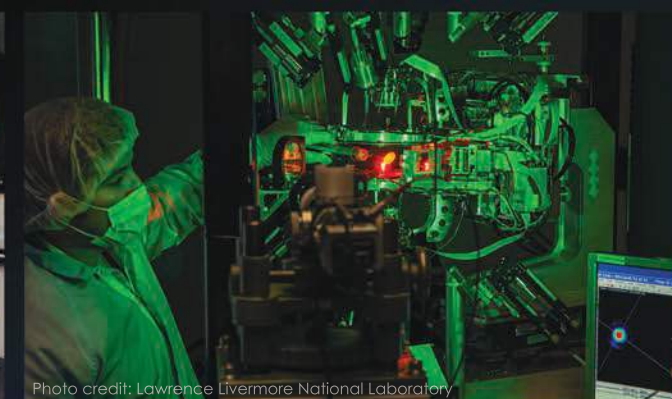


Photo credit: Lawrence Livermore National Laboratory

Laser and Optical Equipment Manufacturing

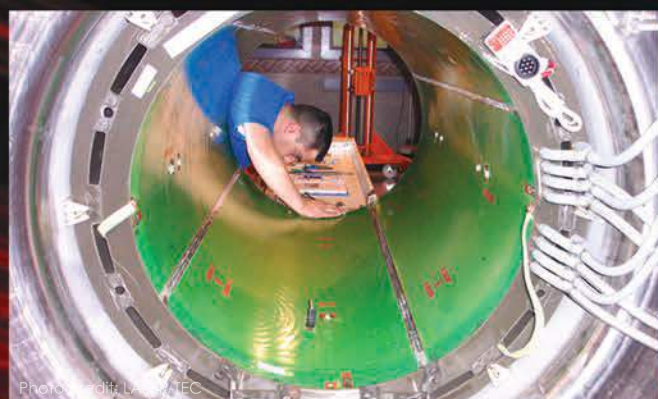
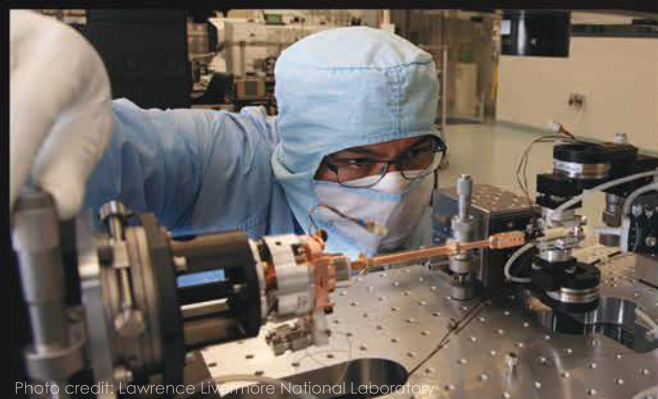
Industries:

Developers and Manufacturers of Lasers and Laser Systems, Optical Sensors, Imaging Systems, Optical Coatings.

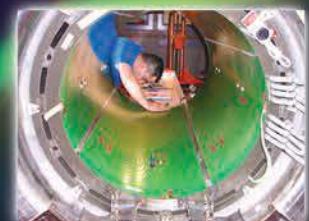
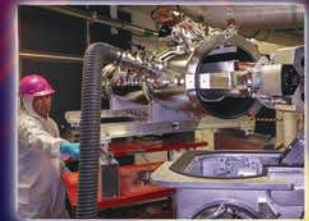
Job Titles:	Average Salary:
Ophthalmic Laboratory Technician	\$28,890
Mechanical Technician	\$53,070
Laser Technician	\$61,580
Engineering Technician	\$61,580
Electro-optics Technician	\$61,580
Production Technician	\$61,580
Alignment and Testing Technician	\$53,070

Tasks:

Building, testing, installing, programming, maintaining and repairing laser systems, systems with embedded lasers such as mass spectrometers, Lidars, metal cutting, welding or drilling, telescopes, microscopes, cameras, and other opto-electronic systems.



where do ROBOTICS AND PHOTONICS TECHNICIANS work?



Research and Development

Industries:

Aerospace, Automotive, Industrial Machinery, Consumer Electronic Products, Medical Equipment, Telecommunications, Photonics, Electronic Systems.

Job Titles:	Average Salary:
Photonics Technician	\$61,580
Electro-Optical Technician	\$61,580
Instrumentation Technician	\$59,820
Engineering Technician	\$59,820
Diagnostics Control Technician	\$61,580

Tasks:

Building, testing, installing, troubleshooting, programming, maintaining, calibrating, and repairing laser and optical systems.

Communications and Information Technology

Industries:

Fiber Optics, Wireless Communication, Network and Computer Support, Broadband Systems, Telemetry.

Job Titles:	Average Salary:
Computer Repairer	\$36,560
Networking Technician	\$61,830
Electronic Technician	\$59,820
Communications Technician	\$55,190
Telecom Equipment Repairer	\$55,190
Field Service Technician	\$54,540
Fiber Optics Technician	\$54,540
Telecom Engineering Specialist	\$98,430

Tasks:

Repairing computers and networks, troubleshooting cellular systems, installing and maintaining video security systems, repairing radio and telemetry systems repair.

Healthcare

Industries:

Biotechnology, Medical Equipment Manufacturing and Servicing, Pharmaceutical Manufacturing.

Job Titles:	Average Salary:
Biomedical Technician	\$45,660
Medical Equipment Repairer	\$45,660
Biomedical Equipment Technician	\$45,660
Biomedical Electronics Technician	\$45,660
Electronic Technician	\$59,820

Tasks:

Installing, maintaining and repairing medical equipment such as MRI, X-Ray, ECG, lasers, PET and CT scans, ultrasound and life support equipment.

