

Workplace at a Glance



Work on What Matters

- World-class electronic component and unit design, analysis and test
- Custom mechanical solutions for severe environments
- High-power solid state lasers and sensors
- High-performance systems and subsystems

Community

E&P prides itself on the culture of its workplace. Our colleague collaboration and team-based work environment will guarantee that you feel valued.

Benefits

Continue your education with our EdAssist program. Maintain a healthy work-life balance with our 9/80 work schedule, flex-scheduling and PTO.

Growth

Expand your breadth of knowledge as you work alongside different departments and become a champion of technology utilizing state-of-the-art tools.



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Creative Thinkers Wanted

Northrop Grumman
Strategic Space Systems
Electronics and Payloads Directorate
Space Park, Redondo Beach, California

HIRING ALL EXPERIENCE LEVELS | U.S. CITIZENSHIP REQUIRED



About Us

Electronics and Payloads provides cutting-edge technology to aerospace and defense by creating a wide range of space and ground electronics, and payloads and subsystems. Our combination of innovative products and emphasis on employee growth culminate to form a purposeful career with work that makes a difference.

What We Do

We are responsible for designing and delivering a wide range of space and ground electronics, payloads and subsystems, including:

- Antennas
- Digital, RF and Mixed Signal Designs
- Test Sets
- Power & Control Electronics
- Lasers and Sensors
- Package design and analysis
- Microelectronics Products and Manufacturing



Areas of Expertise

We create all aspects of our space satellites in-house, giving you the opportunity to work on every area of product development – from the creation of custom integrated circuits to the finished product’s launch and support. This vertically integrated structure allows our employees a greater breadth of experience as they work on projects from multiple perspectives of our assembly.

RF & Mixed Signal Products

Skill sets: MMIC Design, Passive RF Design, RF Module/Slice/Unit Design & Analysis, Mixed Signal Custom IC Design, CMOS SoC Design

Tools: ADS, Microwave Office, HFSS, Sonnet, Cadence (Spectre, Virtuoso)

Digital Products

Skill sets: Verification/Modeling, ASIC/FPGA and Digital Circuit Design, Digital Slice/Unit and High Speed Board Design and Analysis, DSP Architecture/Implementation

Tools: Mentor, Synopsys, Matlab/Simulink, Xilinx or Microsemi, Mentor Graphics DxDesigner, Xpedition, HyperLynx

Antenna Products

Skill sets: Antenna Mechanical and Electrical Design/Analysis, Antenna Measurement

Tools: HFSS, GRASP, CST, Creo, Nastran

Power and Control Products

Skill sets: Power CMOS ASIC and Analog Circuit Design (High Frequency Control/Motor Drive), DC/DC Power Converters, Bus Electronics

Tools: Cadence (Spectre, Virtuoso), PSpice, SIMETRIX/SIMPLIS, ADS

Product Engineering

Skill sets: Thermal & Structural Analysis, Electromechanical Engineering/CAD Design, Printed Circuit Board Layout

Tools: TAS, Abaqus, COMSOL or similar FEA tools, Creo, Pro/E or other similar CAD tools, Mentor Xpedition

Lasers & Sensors

Skill sets: Optical Design, Laser I&T, Sensor Performance Modeling

Tools: Matlab, LabView, CodeV, Zemax, FRED

Ground Product Development and Product Engineering

Skill sets: RF/Digital/Analog Design and Test Systems Development, Wideband Receivers, DSP Architecture/Implementation, FPGA and High Speed Digital PCB Design, RF Units, Operational Ground Systems Design/Production/Integration and Test, Network Engineering, Mechanical Design and Analysis, Logistics Engineering

Tools: Creo, Xpedition, CATIA, AutoCAD, Flowtherm, Xilinx ISE/Vivado/Microblaze, Mentor Graphics DxDesigner, PSpice, HyperLynx, Matlab/Simulink

Microelectronics

Skill sets: MBE Growth, Semiconductor Processing, DC and RF Device and Circuit Test, Semiconductor Device Design, Microelectronics Reliability Test

Tools: MBE Epitaxial Growth, Electron Beam Lithography, Canon Stepper, Metal Evaporator, Metal Sputtering Tools, Dielectric Deposition Tools, Dry Etching Tools, Wet Etch Sinks

Electronics Manufacturing

Skill sets: Mechanical Design, Analog and Digital Electronics Test Development, RF and Mixed-Signal Test Set Design, Test Software Development, Material Science, Manual and Automated Test Processes

Tools: AutoCAD, Creo, Labview, MasterCAM, Matlab, NX, Infinity QS, SAP, VEE, Xpedition, EYelit