**OVERVIEW**

Legrand has an exciting opportunity for a Junior EE Hardware System Engineer to join the Data Communications Division Team in Anaheim, CA. This individual will verify a select lineup of complex AV and Computer peripheral products. You will need to create test plans for performing the tests and report documentation necessary for communicating results and maintaining long-term record reliability. To make the test more efficient, you are expected to be able to automate the tests by setting up the right hardware environments and using your programming skills. You will also be presented with the opportunities for design projects when time comes. Explore and document opportunities for greater test efficiency and automation.

**Roles and Responsibilities**

- Provide Design Validation and Performance Test evaluation (hardware/firmware/software)
  - To ensure quality of products in terms of compatibility to C2G and other 3rd party products and conformance to recognized industry standards
- Provide System and circuit-level Hardware EE engineering design support
  - Mobility signal conversion products
    - Active device single output conversion dongles
      - (Example: USB Type C to VGA or DP, HDMI or DVI)
    - Active device multiple output conversion dongles
      - (Example: USB Type C to VGA + DP, HDMI + Ethernet + Power)
  - Laptop/Tablet Docking Station products
    - Active device multiple input + multiple outputs
- Provide SME (Subject Matter Expert) device/system problem resolution support
- Provide Functional Test validation for all C2G products including technical hurdles, and critical path analysis.
  - Must be able to understand the intended use of products, and their environments.
  - Design tests based on the most likely points of failure
- Create and maintain detailed test plan & test report requirements defining technical hurdles, and critical path analysis.
  - Must be able to understand the intended use of products, and their environments.
Understand Electrical Schematics
○ Design tests based on the most likely points of failure

Test automation
○ Needs to be able to identify test needs and research for practical HW/SW automation solutions
○ Needs to be able to write automation programs with the languages that apply to the automation solutions

Document all test results via Microsoft SharePoint system

Manage 3rd party test validation when required
○ EMC, EMI, NRTL, Environmental, Shock & Vibration, Industry Performance

Provide continuous improvement feedback to ensure global Legrand quality & performance

Lab maintenance and testing methods improvements.

Education and Qualifications
● BS (EE) degree
● 1-5 yrs experience in Electrical / Mechanical testing environment.

Preferred Skills
Minimum courses with good grades:
● Microelectronics
● Circuit Theory
● Mathematics (Calculus etc)
● Programming (C, C++, Python etc)
● Signals and Systems (Linear systems, time domains, frequency domains, Fourier transform, transfer functions etc)
● RF or High-speed Signals
● Hands-on lab projects

● Good knowledge in electronic theories and electronic circuit design principles (digital, analog, mixed- signal, power, high-speed, low-noise circuits and requirements)
● Good understanding of computer system and peripherals (USB, Drivers, OS’s etc)
● General knowledge in various AV systems and standards (DP, VGA, HDMI, DVI)
● General knowledge in product production (prototype to production transition, production test plan)
● General knowledge in product quality and reliability (environmental test, stress test etc)
● General knowledge in Mechanical Engineering (effective communication and collaboration with ME)
● Understanding of schematics capture tool (e.g. OrCAD, Altium)
● Understanding of PCB layout tool (e.g. PADS, Altium)
● Good skill in Excel (calculation, data analysis, plotting, BOM management, record-keeping)
● Good skill in PowerPoint (record-keeping, visual communication)
● Hardware tools (oscilloscope, digital multimeter, soldering station, temperature chamber, network analyzer, spectrum analyzer)
● Design verification test, issue analysis and troubleshooting
● Sufficient and effective reporting (test plan, test report)
● Utilization of web tools to explore answers to technical problems
- Must be able work efficiently and safely when testing devices on test systems. Must be able to understand, interpret, and follow test standards.
- Strong organizational and time management skills, close attention to detail and be-able-to effectively handle multiple priorities.
- Must be highly collaborative and able to work in a team based environment. Must be able to deal professionally with internal customers, co-workers and regulatory personnel.
- Must possess strong analytical skills and the ability to identify trends and establish proactive corrective actions.
- Must have excellent verbal and written communications skills and be able to communicate effectively across all levels of the organization.

**How to Apply**
Click [here](https://unlv.edu/engineering/jobs) to apply