

# DIRECTORATE OF INDUSTRIAL LIAISON

# NED University of Engineering & Technology

University Road, Karachi-75270 Pakistan Tel: (+92-21) 99261261-8, Ext: 2274, 2218, Email: dil@neduet.edu.pk



## 'SAY NO TO CORRUPTION'

28-07-2025



# **SUB: HIRING OF FRESH ENGINEERS**

## 1. Electronics Engineer - R&D Department

Objective: Design, prototype, and test new electronic products, systems, or improvements to existing designs.

### **Key Responsibilities**

Research and develop electronic hardware components and embedded systems.

Design and simulate analog/digital circuits using tools like Altium Designer, OrCAD, or KiCAD.

Create and test PCB layouts.

Work with microcontrollers, FPGAs, and SoCs.

Conduct reliability and performance testing.

Collaborate with software/firmware teams on integration.

Prepare design documentation and BOMs (Bill of Materials).

### **Required Skills**

Strong knowledge of circuit theory, signal processing, and embedded systems.

Experience with PCB design and hardware simulation tools.

Proficiency in C/C++ & JAVA for embedded systems.

Understanding of EMI/EMC design practices.

Familiarity with test instruments (oscilloscopes, logic analyzers, etc.).

## Qualifications

B.E./B.Tech or M.E./M.Tech in Electronics/Electrical/ECE or related field. Relevant R&D experience preferred.

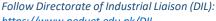
\* Soft Skills

Problem-solving mindset.

Strong documentation and presentation skills.

Collaboration in cross-functional teams.







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## 2. Electronics Technician/Engineer - PCB Fault Tracing & Troubleshooting

Objective: Diagnose and repair issues in electronic circuit boards and systems, supporting product reliability.

#### **Key Responsibilities**

Inspect and diagnose faults in PCBs using schematics and test tools. Repair/rework SMT and through-hole components.
Use diagnostic tools: multimeters, oscilloscopes, logic analyzers.
Maintain repair logs and feedback loops to R&D for recurring issues. Support production and field teams with real-time debugging.
Assist in root cause analysis (RCA) for critical failures.

#### Required Skills

Excellent understanding of analog/digital circuits. Hands-on soldering and desoldering skills (SMD & THT). Ability to read and interpret circuit schematics. Familiarity with ESD-safe handling practices. Firmware re-flashing and board-level tests.

## Qualifications

Diploma or B.E./B.Tech in Electronics/ECE. A similar repair/testing/troubleshooting role.

### Soft Skills

Patience and detail orientation.

Team communication, especially with R&D and QA teams.

Analytical thinking and logging/reporting discipline.

Interested Candidates send their cvs at info@vertrontech.com with job title in subject line.



