Applicants are required to appear for **Virtual Interview** with prior intimation to hr@kiht.in before **23rd February 2026**. Kindly send your profile with educational certificates, pay-slips for the recent three months, experience certificates and other documents. Shortlisted Applicants will be intimated over email with interview dates **(04.03.2026, 05.03.2026, 06.03.2026 and 07.03.2026)** along with the virtual link on or before **2nd March 2026.**

Scientist – Techpod

Terms of Reference:

1. Design multi-layer PCBs using tools such as Altium Designer, KiCad, Eagle, or OrCAD.
2. Develop schematics, PCB layouts, generate Gerber files, and ensure proper documentation of design outputs.
3. Perform component selection, prepare Bill of Materials (BOM), and conduct circuit validation activities.
4. Conduct signal integrity analysis, EMI/EMC considerations, and Design for Manufacturing (DFM) / Design for Testing (DFT) reviews.
5. Coordinate with PCB manufacturers and assembly vendors to ensure quality and timely fabrication.
6. Troubleshoot and debug PCB prototypes and complete electronic systems.
7. Operate and maintain digital fabrication equipment including CNC machines, laser cutters, 3D printers, and PCB milling machines.
8. Develop rapid prototypes for electronic enclosures and mechanical components as part of product development cycles.
9. Support hardware assembly, including SMD/THT soldering, rework, and integration activities.
10. Maintain Fab Lab inventory, tools, calibration status, and ensure adherence to safety compliance standards.
11. Perform functional testing and validation of prototypes using lab equipment such as oscilloscopes, multimeters, power supplies, and logic analyzers.
12. Prepare and maintain technical documentation including design reports, test reports, user manuals, and revision control records.
13. Collaborate closely with mechanical, firmware, and product development teams for integrated system development.
14. Support innovation projects, experimental builds, and product iteration cycles through hands-on prototyping and testing.
15. Train or mentor students and engineers in Fab Lab equipment usage and PCB design best practices, where applicable.

Eligibility:

1. Qualification: Bachelor's Degree in Electronics / Electrical / Mechatronics Engineering or related field.

2. Strong knowledge of analog, digital circuit design principles, RF design or power electronics.

3. Experience with PCB design software such as Altium Designer, KiCad, Eagle, or OrCAD, multi-layer high-speed PCB design.

4. Hands-on experience in soldering, PCB assembly, IoT hardware development and debugging.

5. Familiarity with micro-controllers including Arduino, STM32, ESP32, or equivalent platform and senclosure design tools such as SolidWorks or Fusion 360.

6. Experience operating Fab Lab tools including CNC machines, laser cutters, and 3D printers.

7. Basic firmware development knowledge of (C/C++ / Python) and embedded systems, manufacturing/prototyping workflows.

8. Age up to 50 years.