SATHI FOUNDATION – BITS Pilani

Registered Office: 6/B Opp. Care Centre, BITS Pilani, Pilani, Jhunjhunu, Rajasthan, 333031
Email: sathi@bits-pilani.ac.in

Position: Project Scientist – Focusing on the area of IoT, Sensors, Semiconductor & Packaging Research

Location: BITS Pilani, Pilani Campus

Contract: 1 year experience depending on performance and funding

Consolidated salary: Monthly salary Rs. 60,000-65,000/- (depending on qualification/experience/ suitability)

Reporting to: COO/ Head/Associate Head

About SATHI FOUNDATION-BITS PILANI

The SATHI FOUNDATION-BITS PILANI (henceforth "The Foundation") is a Section 8 nonprofit company hosted by BITS Pilani under the Sophisticated Analytical & Technical Help Institutes (SATHI) Scheme of Department of Science and Technology, Government of India (GOI). The mandate of the company is to create a National Facility with major analytical instruments and further provide shared, professionally managed services and strong Science and Technology infrastructure/facilities, with efficiency, accessibility, and transparency of the highest order under one roof to service the demands of faculty, researchers, scientist, and students of host and user institutes/organizations (including other academic institutes, universities, national laboratories, start-ups, manufacturing and engineering industries, SME's, R&D Labs) to enable them to carry out R&D activities on a round the clock basis with minimum downtime. The primary aim is to build state-of-the-art national facilities at BITS Pilani, Pilani Campus, extending support to researchers, innovators, and startups building products and solutions.

The context and the role: The Foundation was established in 2024, and the foundation aims to become a catalyst for the next wave of IoT based smart electronic devices, prototyping, biotechnology, and healthcare startups in India while also meeting the diverse needs of researchers in various scientific and engineering domains. Ultimately, the collective efforts of the foundation aspire to contribute to the betterment of society. The executive team is being built, and the Foundation is hosted by BITS Pilani, Pilani Campus and is connected to top researchers in the BITS network and beyond.

The Scientist will lead and contribute to cutting-edge research and development in IoT-enabled sensor systems, semiconductor device fabrication, and advanced micro/nano packaging technologies. The candidate will be responsible for project execution, facility development, proposal writing, and mentoring junior researchers.

Required Qualifications

- Ph.D. in Chemistry, Physics, Electronics Engineering, Semiconductor Technology, Nanotechnology, Materials Science, or related fields.
- Minimum 1 years of relevant experience in lab set up experience in IoT, sensors, semiconductor fabrication, or advanced packaging.
- Hands-on experience in cleanroom processes.
- Experience with PCB design, embedded systems, and IoT platforms.
- Familiarity with semiconductor packaging techniques and reliability standards.

Preferred Skills

- Knowledge of MEMS fabrication and sensor integration.
- Familiarity with advanced packaging technologies (3D integration, system-in-package).
- Strong documentation and technical writing skills.
- Strong analytical and problem-solving ability.
- Ability to work in interdisciplinary teams.

Desirable quality:

As the facility is currently under development and in its initial operational phase, the Scientist will be expected to actively contribute to progressive and multidisciplinary activities essential for establishing the laboratory ecosystem. The role may require sometime taking leadership in the installation, commissioning, calibration, and validation of instruments, as well as troubleshooting and resolving technical issues to ensure smooth functionality.

The Scientist should proactively streamline workflows, develop SOPs, and help structure operational frameworks to enhance efficiency and sustainability. If required, the candidate may also support other developmental activities necessary for the successful establishment and growth of the facility, demonstrating flexibility, initiative, and a positive outlook toward institutional development.

How to Apply & submission of application:

Please send your latest CV (not exceeding 3 pages) latest by 17:00 hrs Indian Standard Time (IST) by 31st March

Please mention the position as a subject of the email.

Please send the details to: sathi@bits-pilani.ac.in