



Job Title: Research Associate

Location: Trivandrum

About Us:

Accubits Invent is a pioneering research and development company committed to innovation in biotechnology, IoT technologies, material sciences, and advanced diagnostics. We specialise in transforming scientific ideas into impactful solutions with a focus on healthcare, environmental sustainability, and agricultural applications. Our patented products, such as VolTrac, exemplify our mission to revolutionise diagnostics and global health systems.

We are seeking a motivated and detail-oriented Research Associate to join our innovative team. The ideal candidate will contribute to the development of advanced nanotechnology-based sensing solutions for diverse applications. This role offers a unique opportunity to work on cutting-edge research in a collaborative and dynamic environment, with a strong emphasis on product development and milestone-driven outcomes.

Key Responsibilities:

- Conduct research and development on nanopolymers, material science, and nanotechnology-based sensors for VOC detection.
- Design and conduct experiments related to material synthesis, characterisation, and nanotechnology applications.
- Design, fabricate, and optimise nanomaterials for integration into sensor technologies.
- Collaborate with cross-functional teams to translate research outcomes into scalable product prototypes.
- Analyse sensor performance and refine designs to achieve target sensitivity and specificity.
- Document experimental results, prepare reports, and present findings to the project team.
- Stay updated with emerging trends and advancements in nanotechnology and sensing materials.
- Support in clinical validation and field testing of prototypes.
- Ensure timely delivery of research milestones and contribute to achieving project goals.
- Stay updated with the latest advancements in Material Science and Nanotechnology.
- Manage laboratory equipment and ensure adherence to safety protocols and quality standards.

Qualifications:

- **Education:** **M.Sc.** in Material Science, Nanotechnology, or related disciplines with at least **2 years** of working experience OR **Ph.D.** in Material Science or Nanotechnology (preferred).
- **Skills:**
 - Strong foundation in material science, nanotechnology, and nanopolymers.
 - Hands-on experience in developing nanomaterials for sensing applications.



- Proficiency in advanced material characterisation techniques (e.g., SEM, TEM, XRD).
- Familiarity with VOC sensing technologies and their biomedical applications is a plus.
- Demonstrated ability to work in a milestone-driven product development environment.
- Strong problem-solving skills and attention to detail.
- **Soft skills:** Excellent communication and collaboration abilities. Self-motivated, able to work independently and as part of a multidisciplinary team.

Why Join Us?

- Opportunities for professional development and collaboration with industry experts.
- Be part of a transformative project in non-invasive diagnostics.
- Collaborate with leading experts in the fields of nanotechnology and biomedical engineering.
- Work in a fast-paced environment that values innovation and excellence.
- Contribute to impactful research with real-world healthcare applications.

How to Apply: [Application Link](#)

Application Deadline: 15 Jan 2025

If you are passionate about advancing the frontiers of Material Science and Nanotechnology, we would love to hear from you!

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