



Indian Institute of Science Education and Research (IISER) Bhopal

Applications are invited from Indian nationals for **Junior Research Fellow (JRF)**, **Project Associate (PA) – I** and **Research Associate (RA)** in the Qmet Technology Foundation sponsored project “**Field-deployable quantum-enhanced field sensing on an integrated hybrid platform**”.

Project description:

The project involves development of tools and techniques that exploit atom-like defects in diamond as quantum sensors to achieve very high sensitivities and sub-millimeter scale spatial resolution.

Duration:

Twelve Months for JRF and RA; Six Months for PA-I

Last date for applications:

22nd May 2026, but the call will remain open until suitable candidates are found.

Essential Qualifications:

Project Associate-I: M. Sc. in Physics, M.Tech/B.Tech in ECE/EE/CS/Physics or related disciplines with good academic record (first class/division or minimum CPI of 7.0/10.0).

Junior Research Fellow (JRF): M. Sc. in Physics, M.Tech/B.Tech in ECE/EE/CS/Physics or related disciplines with good academic record (first class/division or minimum CPI of 7.0/10.0). Candidate must have qualified a National Eligibility Test (UGC, CSIR, LS, GATE, etc.) with a valid rank/score at the time of applying for this post.

Research Associate-I/II/III: PhD in Physics/Chemistry/EE with good academic record. Desired work experience after PhD completion: 0 – 2 years.

Additional Qualifications:

Candidates having experience with 2D Materials, Optics, Photonics, Nanofabrication, Quantum Information, Solid-state NMR, Scanning Probe Microscopy, Atomic Force Microscopy, Magneto-optical Characterization Techniques, Cryogenics, Lock-in Techniques, Python Programming, Electron Spin Resonance, Quantum Optimal Control and Atomic Magnetometry will be preferred. Candidates having expertise in designing, fabrication, testing of indigenous instruments in the field of lasers & optics, developing low noise analog & digital electronics, developing FPGA & Arduino based systems, mechanical & software development and magnet design will be preferred.

Salary:

Junior Research Fellow: Rs. 37k p.m. + HRA (18%).

Research Associate – I/II/III: Rs. 58k – 67k p.m. + HRA (18%); As per qualifications.

Project Associate – I: Rs. 25k p.m. + HRA (18%).

How to Apply:

Applications containing a cover letter, a detailed CV, name and address of 2 referees as well as a brief writeup on any research work experience should be sent by email ONLY to phani@iiserb.ac.in on or before 22nd May 2026. Shortlisted candidates will be called for an online interview. For more details and context, please visit the webpage <http://home.iiserb.ac.in/~phani/> of Dr. Phani Kumar.