



## **Indian Institute of Science Education and Research (IISER) Bhopal**

### **Junior Research Fellow/Research Associate-I at IISER Bhopal**

Applications are invited from Indian nationals for a post of “Junior Research Fellow” or “Research Associate-I” in the MHRD-STARS sponsored project “Diamond Quantum Sensors for Nanomagnetometry of Magnetic 2D Materials”.

#### **Project description:**

The project involves development of a next generation magnetic microscope that exploits atom-like defects in diamond as quantum sensors to achieve very high sensitivities and nanoscale resolution required for probing magnetism in few-layer 2D materials on the nanoscale.

#### **Duration:**

Initially 3 months (up to two years with satisfactory performance).

#### **Last date for applications:**

The selection will commence on **31<sup>st</sup> December 2020**, but the call will remain open until suitable candidates are found.

#### **Essential Qualifications:**

**Junior Research Fellow:** 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). Candidates having experience with 2D Materials, Quantum Information, High Pressure Research, CMOS-integrated Quantum Sensing and LabVIEW Programming will be preferred. 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:** PhD in Physics/Electrical Engineering or related disciplines with good academic record. Candidates having experience with 2D Materials, Quantum Information, High Pressure Research, CMOS-integrated Quantum Sensing and LabVIEW Programming will be preferred.

#### **Salary:**

**Junior Research Fellow:** Rs. 31,000 p.m. + HRA (16%).

**Research Associate-I:** Rs. 47,000 p.m. + HRA (16%).

#### **How to Apply:**

Applications containing 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 **31<sup>st</sup> December 2020**. Shortlisted candidates will be called for an interview. For more details and context, see the homepage of Dr. Phani Kumar.