

Poornaprajna Institute of Scientific Research

PROMOTED AND MANAGED BY ADMAR MUTT EDUCATION FOUNDATION (AMEF)

Recognised by Department of Scientific & Industrial Research (DSIR) and MAHE, Manipal



Applications are invited for Ph.D. Position

Applications are invited for **Research Fellow position (Ph. D. program)** at PPISR from young enthusiastic researchers in the areas of Materials Science and Catalysis.

Number of vacancies: One (1)

Eligibility: Candidates with 1st class in Master's Degree in Physics, Materials Science, Nanotechnology, or in any branch of aforementioned subjects are eligible to apply. Students who have cleared exams such as GATE, NET, CSIR JRF/LS are preferred (not mandatory).

Fellowship Amount: Rs. 20,000/- Per Month (Fixed), **Duration:** 3.5 years

Selection: Based on the performance in the Interview and other credentials (academic record, research experience and expertise), the candidate will be selected for the above mentioned position.

The selected candidate will be working in the research area of "**NanoMaterials for green H₂ generation from solar light harvesting**" at SHAPECAT laboratory, Dept of Materials Science and Catalysis, PPISR, Bengaluru. Currently, SHAPECAT laboratory lead with two Ph. D. scholars (one is DST-Inspire and one is under SERB/SRG grant).

Interested candidates can send their detailed resume (Sub: Application for Ph. D. position), to Dr. Naresh Nalajala at Email: naresh@ppisr.res.in on or before September 10, 2024.

For know more details about institute and host supervisor, please visit at the following links

<https://ppisr.res.in/>

<https://ppisr.res.in/naresh-nalajala/>; <https://scholar.google.co.in/citations?user=gGN1hO0AAAAJ&hl=en>

About the Institute

Poornaprajna Institute of Scientific Research (PPISR) was established in 2003 near Bengaluru International Airport on a sprawling area of 32 acres. The institute is Promoted and Managed by Admar Mutt Education Foundation (AMEF). PPISR offers state of the art facilities for young researchers to carry out innovative research in the areas of basic and applied sciences. Three divisions; Materials Science and Catalysis, Biological Sciences and Theoretical Sciences with young and eminent researchers are involved in healthy mix of both basic and applied research. The institute is recognized by Department of Scientific and Industrial Research (DSIR), GOI, New Delhi and Manipal Academy of Higher Education (MAHE) Deemed to be University, Manipal, Karnataka, as an R & D centre. All Faculty members are recognized PhD guides under MAHE, Manipal and the Research Scholars will be registered for their PhD degrees under MAHE, Manipal, No.1 private University in India. Already 31 students from PPISR have obtained their Ph.D. degrees from MAHE, Manipal. The quality and progress of research in PPISR is reflected in its cutting-edge research programmes, publications in high impact journals, project awards and several best research paper awards in National and International conferences received by the faculty and students over the last few years.

Over 400 research articles have been published in reputed international journals and 2 US and 2 Indian patents have been granted so far. Several sponsored projects from industry and Govt. Agencies have been conducted successfully.

Bharat Ratna Prof. C. N. R. Rao donated a laboratory to PPISR in 2016 to carry out research in the field of Materials Science recognizing the quality research work done at PPISR. For more information, please visit <https://ppisr.res.in/>

About the Division:

Materials Science & Catalysis includes faculty and students from diverse backgrounds such as catalysis, industrial chemistry, polymer, nanomaterials etc. and working on various thrust areas of materials science and catalysis. The research laboratories are now equipped with state-of-the-art instruments to give every advantage to the students and faculty pursuing research. Broad area of research includes: Heterogeneous Catalysis, Novel Catalytic Materials, Biodiesel synthesis, Biomass Conversion, CO₂ transformations, mesoporous polymers, fine and petrochemical synthesis, gas to liquid conversion.

Research Facilities:

Some of the Major Research facilities available at the institute are X-ray diffractometer, FT-IR, Photoluminescence, Fluorescence & UV-VIS, Spectrophotometers, Gas Chromatographs, FPLC, HPLC, Fully Automated High Pressure fixed-bed catalytic reactor, High pressure stirred batch reactors, Flow reactors, Rotary evaporators, Chemisorption equipment, Surface area analyser, Photocatalytic reactor, Solar Simulator (Holmarc), Crush strength Machine, Attrition tester, Electric extruder etc.

The student life at PPISR is enriched by a range of seminars, meetings and workshops. We encourage our students to interact with researchers from other organisations in India and abroad.

Dr. ANAND B HALGERI
DIRECTOR