

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Jadavpur, Kolkata – 700032

Advt No: KDMR/TRC/026

Date: 20-05-2025

Position: Research Associate (RA) – Nanoelectronic and Optoelectronic Devices Number of Positions: One

Minimum Qualifications: Candidates must hold a Ph.D. degree in Physics (specializing in Experimental Condensed Matter Physics or Materials Science) from a recognized university or institute. Essential qualifications include hands-on experience in fabricating and characterizing Field Effect Transistors, lithography techniques (Electron Beam Lithography and Photolithography), semiconductor device fabrication, thin-film deposition methods, synthesis and liquid exfoliation of 2D materials, and preparation of organic/inorganic perovskites.

Desirable Qualifications: Preference will be given to applicants with additional expertise in advanced analytical techniques such as X-ray Diffraction (XRD), Field Emission Scanning Electron Microscopy (FESEM), Photoluminescence (PL), Transmission Electron Microscopy (TEM), and optical and electrical characterization of thin films. Extensive knowledge and experience in nano-electronic device fabrication methodologies, lithography techniques (including electron beam lithography - EBL), device physics, and related optimization strategies will be highly valued.

Duration of Appointment: The initial appointment period will be six months, extendable to one year or more based upon satisfactory performance reviews.

Candidates who have submitted their Ph.D. thesis and are awaiting the award of the degree may also apply, provided they furnish relevant documents confirming their thesis submission. Such candidates will be eligible to receive a fellowship equivalent to an RA only after receiving their Ph.D. degree.

Age Limit: 34 years (Age relaxation applicable as per government rules).

Emoluments: As per rules of the Indian Association for the Cultivation of Science. For detailed rules, please refer to:

http://iacs.res.in/waterways/admin/ckeditor/ckfinder/userfiles/files/General-Rules-Regulations-of-the-Institute_02_12_2016.pdf

Documents Required: Ph.D. holders must present the original or provisional certificate. Candidates awaiting their degree must provide relevant documentation such as an acknowledgment copy from their respective university or a letter from their supervisor confirming thesis submission, title, university registration number, and date of submission.

Application Process: Interested candidates should apply by email to Dr. K. D. M. Rao, SAIS, IACS (mallik2arjun@gmail.com, saiskdmrao@iacs.res.in).

Last Date for Application: June 9, 2025

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