



## INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE (IACS)

2A and 2B Raja S. C. Mullick Road, Kolkata, INDIA-700032

**Advertisement No: 1.2/DA/TRC/2023-24/001**

**Date: 21.04.2023**

Applications are invited from Indian Nationals for the post of **Research Associate** in different research groups, affiliated to the Technical Research Centre (TRC), IACS, Kolkata, for conducting Translational research as per the mandate of the TRC.

**Tenure:** This position is temporary (initially up to 31<sup>st</sup> March, 2024 and can be extended on yearly basis subject to continuation of the project and recommendation of the research advisory committee at the end of the offered tenure for a given candidate following the Institute norms). Candidates will have no right to claim (explicit or implicit) to any post in the institute.

**Essential qualification:** PhD in Science. Candidates who have submitted PhD thesis, but yet to receive the degree are also eligible. But if selected, they will be receiving reduced fellowship (equivalent to SRF position) until the PhD degree certificate is submitted.

**Desired qualification and research experience:** Desired past research expertise for individual post-codes is appended below.

**Fellowship:** As per rules of IACS

**Last date for receiving application:** 12-May-2023 (5.00 PM)

**Selection procedure:** Applications will be shortlisted on the basis of past academic record, research publications, match of the past research expertise with specific requirements for a given post and other academic parameters, as decided by the selection committee. Only shortlisted candidates will be communicated via their registered email and called for an interview (hybrid mode) for the final selection. Merely satisfying the essential qualification does not guarantee that a candidate will be shortlisted for interview. IACS holds the full right of choosing a candidate and even not selecting any, in case suitable applications are not received. A candidate applying for a given post may be considered for another post if found more suitable by the selection committee. Based on the past research experience and academic background, the selection committee holds the right to recommend the placement of the selected candidates as RA-I or RA-II or RA-III.

**Date of Interview:** Tentatively in the 3<sup>rd</sup>/ 4<sup>th</sup> week of May, 2023. Shortlisted candidates will be informed the schedule through email.

**Method of application:** Filled in (typewritten) Application Form (**DOWNLOAD:** [https://docs.google.com/document/d/1IV\\_VxAavS3aauwZZHwha65epd0LBRC SX/edit?usp=share\\_link&ouid=114375395207815933639&rtpof=true&sd=true](https://docs.google.com/document/d/1IV_VxAavS3aauwZZHwha65epd0LBRC SX/edit?usp=share_link&ouid=114375395207815933639&rtpof=true&sd=true)) should be sent as a PDF file through email to [dofficeab@iacs.res.in](mailto:dofficeab@iacs.res.in) latest by **5.00 PM, May 12, 2023**. Subject line of the email should read as: “**Application for Research Associate-TRC**”. Application Form is also attached at the end of this document. Applications/Resume sent in any other format will not be considered for selection.

**Post CODEs with relevant detail. One (1) vacancy for each post CODE**

<b>Post CODE</b>	<b>Project Investigator (PI)</b>	<b>Desired past research experience</b>
WP1-1	Prof. Indra Dasgupta	Experience in first principles electronic structure calculations and/or machine learning
WP1-2	Prof. Amitava Patra	Experienced with 2D materials for photonic applications
WP1-3	Prof. Sugata Ray	Expertise in condensed matter physics with special emphasis on magnetism and dielectric properties of solids. One very important criterion would be prior experience in single crystal growth by various means, especially floating zone furnaces.
WP1-4	Dr. Devajyoti Mukherjee	Expertise in the fabrication of magnetic and ferroelectric thin-films and multiferroic heterostructures using pulsed-laser-deposition technique and their structure-property characterizations. Knowing how to fabricate nanoscale devices will be desired.
WP1-5	Dr. Subhadeep Datta	Experience in the areas of cryogenics and precision low noise electrical measurements will be preferred
WP2-1	Prof. Somabrata Acharya	Ph.D. in Chemistry or Physics with the experience in materials synthesis and characterizations
WP2-2	Prof. Narayan Pradhan	Experience in Inorganic Nanocrystals
WP2-3	Prof. Ayan Datta	Expertise in Computational Chemistry and Materials Design. Good research ability or experience will be specially considered in the area of periodic DFT and reaction mechanism studies on surfaces for homogeneous and heterogenous catalysis.
WP2-4	Dr. KDM Rao	Nanofabrication and device applications: Experience in the synthesis of 2D materials or organic/inorganic perovskites and the fabrication of thin film devices.
WP3-1	Prof. Santanu Bhattacharya	Expertise in Gene delivery, therapeutics, bioengineering.
WP3-2	Prof. Suhrit Ghosh	Expertise in Polymer/ Supramolecular Chemistry, Self-Assembly, Biophysics, Chemical Biology
WP3-3	Prof. Nikhil R. Jana	Cell culture and drug delivery
WP3-4	Prof. Siddhartha S. Jana	PhD in any field of Biological Sciences having experiences in cell biology or virology.
WP3-5	Dr. Anindita Das	Ph.D. in any field of Organic/Supramolecular/Polymer Chemistry. Experience in polymeric/supramolecular soft materials for biological applications including drug delivery, therapeutic, etc. will be preferred. The candidate having first-hand experience in multi-step organic synthesis, polymer synthesis, catalysis, cell culture, bioimaging and biophysical studies will be given priority.
WP4-1	Prof. Tapas Chakraborty	Ph.D. in the area of mass spectrometry, and record of publications primarily on mass spectrometry related works
WP4-2	Prof. Ranjan Sen	Expertise in the broad areas of Microbiology /Biochemistry / Biophysics.
WP4-3	Prof. Pradyut Ghosh	Knowledge in Inorganic and Supramolecular Chemistry, particularly, metal complex-based receptors for sensing and extraction of biologically active / environmentally relevant anions are desired
WP4-4	Prof. Jyotirmayee Dash	Ph.D. degree in Biochemistry with expertise in Nucleic acid chemistry, Biophysics, Chemical and Molecular Biology
WP4-5	Prof. Surajit Sinha	PhD in are of Molecular and Cancer Biology
WP4-6	Prof. Tapan Kanti Paine	PhD degree in Chemistry with experience in bioinspired inorganic chemistry/bioinspired catalysis. Knowledge in synthetic inorganic chemistry, structural, electrochemical and spectroscopic techniques is essential.
WP4-7	Dr. Shinto Varghese	PhD in the area of Physics/ Chemistry/ Electronics/ Materials with sound knowledge of charge transport properties in organic semiconductors for optoelectronic devices. Experience in the fabrication of any one of the following devices (OFET, OLED and Memory) will be preferred.

# APPLICATION FORM

For the Post of Research Associate (RA), TRC, IACS, Kolkata

1. Advertisement Number:

2. Post (maximum 2) applied for: (Check the advertisement for post CODES and PIs)

	Post CODE	Name of the PI
Preference 1		
Preference 2		

3. Candidate's personal information

Name			
Current affiliation			
Date of Birth		Gender	
Address			
Email			
Mobile number			

4. Academic Qualifications (Class X onward):

Degree	Subject(s)	Class/ CGPA	Year	University/Board

5. Information on the PhD Thesis:

Thesis title	
Thesis supervisor	
Year degree received*	
University/ Institute	

\*if degree yet to be received, write accordingly

6. Fellowship/ Award/ Other Recognitions (If any):

7. Work/ research experience (post PhD) in reverse chronological order:

8. Complete list of publications (Authors, title of the paper, volume, issue, full page numbers should be mentioned. Applicant's name should be underlined)

**9. A brief description of the past research experience and research skills (maximum 500 words with space):**

**10. Other relevant information (if any)**

Signature of the candidate with date