

**Invitation to pursue Ph.D. programme (2023-24) at different centers of  
UGC-DAE Consortium for Scientific Research, Indore**

UGC-DAE Consortium for Scientific Research (UGC-DAE CSR) is one of the premier research institutions in the country. It has advanced research facilities at Indore, Mumbai, Kolkata and Kalpakkam (Tamil Nadu). Students are admitted to a doctoral research program leading to Ph.D. degree in Physics, Chemistry, Life Sciences and some inter-disciplinary areas. On completion of their Ph.D. degree, a number of our students could get placements in reputed national institutions and universities as well as abroad. For more details about UGC-DAE CSR, you may visit our website: [www.csr.res.in](http://www.csr.res.in), which contains the details of experimental facilities, annual reports (containing publication list, research and other activities), newsletters, student placements etc.

The main research areas of the consortium at Indore, Mumbai, Kolkata and Kalpakkam include: *Physics at Low Temperatures and High Magnetic Fields, Surfaces/Interfaces, Thin Films and Nano Materials, Neutron scattering studies of materials, X-ray, Optical and Electron Spectroscopic Studies using Synchrotron and Laboratory Sources; Electrical, Magnetic and Thermal Properties of materials; Nano-Biosciences, Radiation / Stress Biology / Biochemistry, Nuclear Technique Based Condensed Matter Physics- Positron Annihilation Spectroscopy, Mossbauer Spectroscopy, Experimental Nuclear Physics, Gamma Ray Spectroscopy of Nuclear High Spin States, Nuclear Reactions and Theoretical condensed matter physics.*

In the present summer session, approximately the following are the vacancies at different centers of the Consortium:

	Vacancies <sup>#</sup>	Proposed area of research
Indore Centre	22	Properties of materials at low temperatures and high magnetic fields, thin films / multilayers, microscopy, spectroscopic studies using Synchrotron and laboratory sources, theoretical condensed matter physics, single crystals etc.
Kolkata Centre	02	Condensed Matter Physics (01 vacancy) & Biological Sciences (01 vacancy).
Mumbai Centre	01	Physics of rare-earth intermetallics, multiferroics and strongly-correlated electron systems using neutron diffraction and laboratory techniques.
Kalpakkam Node	04	Nanostructured materials, magnetism in carbon based materials, wide band gap materials, energy materials and flexible functional thin films.

<sup>#</sup> Number of vacancies are tentative only and can increase or decrease as per the requirement.

• **Qualification:**

**For Indore, Mumbai and Kalpakkam Node:** M.Sc. degree (2020 or after) in Physics with a minimum of 60% overall marks (55% for reserved and women candidates) and must have either

1. Qualified Joint Entrance Screening Test (JEST-2023 rank within 300) and/or
2. Valid CSIR-UGC NET and/or
3. DST-Inspire Fellowship (Ph.D.)

### **For Kolkata Centre**

For Biological Sciences: M.Sc. degree (2020 or after) in Life Sciences / Zoology / Botany / Physiology / Biochemistry / Microbiology / Bio-technology / Environmental Sciences / Molecular Biology & BioPhysics with a minimum of 60% overall marks (55% for reserved and women candidates) and must have either

1. Valid CSIR-UGC NET and/or
2. DST-Inspire Fellowship (Ph.D.) and / or
3. DBT JRF and / or
4. ICMR NET and /or
5. Valid GATE score in Biotechnology / Life Sciences

For Physics : M.Sc. degree (2020 or after) in Physics with a minimum of 60% overall marks (55% for reserved and women candidates) and must have either

1. Valid CSIR-UGC NET and/or
2. Qualified Joint Entrance Screening Test (JEST-2023 rank within 300) and/or
3. DST-Inspire Fellowship (Ph.D.) and/or
4. Valid GATE score in Physics

We welcome applications from less-represented sections of the society and women candidates in our institute.

- **Selection process:** The selection of the students for the Ph.D. programme will be a two-step process: Screening of the applications, followed by an online interview of the short-listed candidates by the Selection Committees.
- The short-listed candidates shall be called for online interview to be conducted tentatively in the month of May / June 2023.
- The applicant must indicate the preference of CSR Centres option in the application form.
- After the above selection process, the students will be distributed to different centers of the Consortium, depending on the option of the students and vacancies.
- The selected students would be registered for Ph.D. with Devi Ahilya Vishwavidyalaya (DAVV), Indore (for Indore Centre), Savitribai Phule Pune University (SPPU, for Mumbai Centre), University of Calcutta or Jadavpur University (for Kolkata Centre), and University of Madras (for Kalpakkam node).

### **How to Apply:**

Please visit <https://inhousejrf.csr.res.in/> for Filling Online Application Form for UGC-DAE CSR Ph.D. Programme (2023-24)

- Registration will start online from 1<sup>st</sup> May 2023
- Last date for online submission is 20<sup>th</sup> May 2023 (17:30 hrs)

The exact date & time of interview will be intimated to the respective candidates along with other details. For any queries kindly mail to Academic Committee Chairman, Indore Centre ([vrreddy@csr.res.in](mailto:vrreddy@csr.res.in)) and/or office of the Centre Director, Indore Centre ([cd.indore@csr.res.in](mailto:cd.indore@csr.res.in)). For technical queries about the portal, kindly mail to [mkr@csr.res.in](mailto:mkr@csr.res.in)