

**Invitation to pursue Ph.D. programme (2020-21) 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 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, 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 winter session, approximately the following are the vacancies at different centers of the Consortium:

	Vacancies <sup>#</sup>	Proposed area of research
Indore Centre	11	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 etc.
Mumbai Centre	03	Physics of rare-earth intermetallics, multiferroics and strongly-correlated electron systems using neutron diffraction and laboratory techniques, Bio/nano interface research.
Kolkata Centre	03	Experimental and theoretical nuclear physics and applications of nuclear techniques in condensed matter physics, chemistry and biosciences.
Kalpakkam Node	04	Thin films, magnetic semiconductor, Defect induced magnetism in otherwise nonmagnetic materials, transition metal compounds, energy materials etc.

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

- **Qualification:** M.Sc. degree in Physics with a minimum of 55% overall marks and must have either
  1. Qualified Joint Entrance Screening Test (JEST-2020 rank within 300) and/or
  2. Valid CSIR-UGC NET and/or
  3. DST-Inspire Fellowship (Ph.D.)
- **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 during the last week of January 2021.
- 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), Calcutta University, Kolkata (for Kolkata Centre), University of Madras, Chennai (for Kalpakkam node) and Savitribai Phule Pune University (SPPU)\* (for Mumbai Centre).

*\* JEST qualified students opting for Mumbai Centre will have to additionally appear at an entrance test conducted by SPPU and if qualified, appear at a separate interview conducted through SPPU. UGC-NET/GATE/DST-Inspire (PhD) qualified candidates opting for Mumbai Centre will have to additionally apply for PhD at SPPU and appear at a separate interview conducted through SPPU.*

### **How to Apply:**

Please visit <https://application.csruportal.com/> for Filling Online Application Form for UGC-DAE CSR Ph.D. Programme (2020-21)

Registration will start online from 17<sup>th</sup> December 2020

Last date for online submission is 17<sup>th</sup> January 2021

The exact date & time of interview will be intimated to the respective candidates along with other details.

For any queries kindly mail to office of the Centre Director, Indore Centre ([cd.indore@csr.res.in](mailto:cd.indore@csr.res.in)) and/or Academic Committee Chairman, Indore Centre ([vreddy@csr.res.in](mailto:vreddy@csr.res.in))