



(CRP-2026) – Phase 1

Call for Coordinated Research Project (CRP) Proposals from Principal Investigators (PI) from Non-DAE Institutes

May 20, 2026

BRNS has identified some of the recent priority research areas in which scientists from different units of Department of Atomic Energy (DAE) are interested in establishing collaborations with research groups from academia and research institutes outside DAE. Interested Principal Investigators (PIs) and CoPIs from the non-DAE institutes, may communicate with Principal Collaborators (PC) / CoPC from DAE institutes, for working out detailed project proposals for collaborative research. Project Proposal Application (PPA format available for BRNS portal), shall be submitted online on BRNS portal, for further consideration.

Salient features of CRP Programme are as follows:

1. Project Proposal Applications (PPAs) will be prepared jointly by PIs from participating institutions outside DAE and PCs from DAE Units.
2. Proposals should be submitted ONLY BY ONLINE MODE (<https://brns.res.in>) by PIs working in Academic Institutions and National Universities. For further details, please refer terms and conditions available on BRNS portal.
3. PI should have relevant work experience (publications, patents, prototype, technology demonstration should be cited in submission).
4. A CRP may consist of multiple sub-projects and based on research areas and expertise of PIs and Co-PIs, may have participation of multiple institutions. PI/CoPI should apply for only one subproject (mention Title and Subtitle clearly in the proposal).
5. A PI who has any ongoing BRNS project, is not entitled for any CRP project.
6. The duration of CRP implementation will be 3-5 years accordingly, deliverables from each Sub-project (maximum duration 3 years) will be integrated into the main project within its span.
7. Processing of sub-projects under each CRP title will be same as stand-alone research project. However, from inception to closure, to fulfill the objective of CRP, these sub-projects will be processed in collective manner. Progress review and subsequent funding also will be done in integrated manner for all the sub-projects of the CRP.
8. Deliverables and time schedules will be clearly defined and the progress will be

- monitored at frequent intervals for all the sub-projects of a CRP.
9. Technology Readiness of participating research groups in executing the projects will be given due importance & consideration.
 10. Project proposals with translational components and market potentials will be given preference.

BRNS invites applications for following CRP from PIs from non-DAE institutes.

1. Integrated Physics and AI-Driven Cryogenic CMOS Modelling and Circuit Validation Platform for Advanced Low Temperature Electronics. *Dr. Tapas Samanta (PC), tsamanta@vecc.gov.in*

- a. Physics-based compact model development for 180 nm CMOS at Cryo temperature
Dr. Tapas Samanta (PC), tsamanta@vecc.gov.in
- b. Design and Implementation of Cryogenic Charge Sensitive Amplifier (CSA) Circuits.
Shri Tanushyam Bhattacharjee (Co-PC), btanu@vecc.gov.in
- c. ML/AI-driven framework for compact model generation for 180 nm CMOS **Dr. Shri Partha Dhara (Co-PC), partha_dhara@vecc.gov.in**

For any further query related to this CRP-2026 call, you may write to **Hemant Prakash Agnihotri, Programme Officer, BRNS (Email: hemant_brns@barc.gov.in)**. Proposal submitted after the due date will not be considered.

Last date of submission: August 31, 2026
