

Proposal for Women's Empowerment in High-Performance Computing at



Indian Institute of Technology (BHU) Varanasi

Introduction:

IIT(BHU) with its cutting-edge Param Shivay supercomputing facility, is committed to fostering women's advancement in high-performance computing (HPC). Recognizing the underrepresentation of women in this crucial domain, we propose an initiative to empower and equip female researchers with the resources and expertise necessary to excel in HPC. This proposal outlines an initiative to empower women researchers and scholars by providing access to HPC resources.

Objectives:

- **Increase the participation of women in HPC research:** Attract and support a diverse pool of talented female researchers to utilize the Param Shivay supercomputing resources for groundbreaking projects.
- **Bridge the gender gap in HPC skills:** Provide comprehensive training and mentorship to women researchers, equipping them with the technical knowledge and expertise required to thrive in the HPC landscape.
- **Promote collaboration and networking:** Create a supportive community of women researchers in HPC through the events of the Institute.
- **Showcase the impact of women in HPC:** Celebrate the achievements of female researchers and inspire future generations to pursue careers in this field.

Target Audience:

- Female PhD students, scientists, and faculty from across India, affiliated with reputed academic and research institutions.
- Researchers with a strong interest in utilizing HPC for their projects, spanning diverse fields like science, engineering, medicine, and social sciences.

Program Components:

- Offer a Supercomputing usage quota of up to Rs. 5 lakhs to eligible candidates for projects utilizing the Param Shivay supercomputing resources.
- Opportunity to engage in knowledge-sharing programs.
- Prioritize research proposals addressing societal challenges or showcasing innovative applications of HPC.

Selection Process:

- The applicants [Principal Investigator (PI) and Co-Principal Investigator(s) (Co-PI(s))] should be women and must be affiliated (regular position/students) with Indian institutes
- The upper age limit for the applicants is 30 years
- The duration of the project is 1 Year
- Maximum credits to access the supercomputer is 5 lakhs
- Competitive application process based on project proposal quality, and potential impact.
- Academic qualifications and research experience of the applicant.
- Demonstrated commitment to research and innovation in STEM fields.