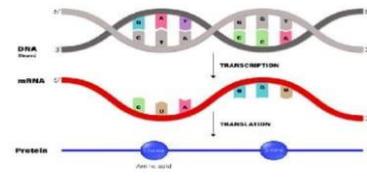
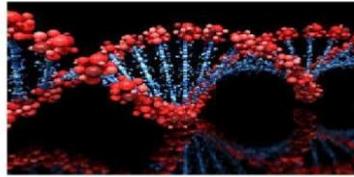


Indian Institute of Technology Indore

presents

Workshop on Sustainable Agriculture Using Bharat Agri-Grid Ecosystem

June 28 to June 29, 2022



under the scheme
National Supercomputing Mission (NSM)
 Govt. of India from
Supercomputer Education and Research Centre (SERC)

co-hosted by:

 IIT Indore	 ICAR-IISR Indore	 Mahindra University Hyderabad	 IIT Jodhpur
 C-DAC Pune	 IISc Bangalore	 CSIR-CEERI Pilani	 CSIR-NCL Pune

It gives us immense pleasure to inform you that the Online “Workshop on Sustainable Agriculture Using Bharat Agri-Grid Ecosystem” under the National Supercomputing Mission (NSM) from Supercomputer Education and Research Centre (SERC) will be hosted by IIT Indore, IISR Indore, and Mahindra University Hyderabad in collaboration with IIT Jodhpur, C-DAC Pune, IISC Bangalore, CEERI-Pilani, NCL Pune from 28 June 2022 to 29 June 2022 in hybrid mode.

This workshop aims to bring together the industry/start-up ecosystem of the country to harness the power and planning of Agriculture grid infrastructure applications over the NSM supercomputers. Agriculture plays an important role in GDP and accounts for providing employment to 43 percent of the total Indian population according to the World Bank census, 2017. NSM is a project of national importance that can help boost the agriculture sector enabling the industry/start-up ecosystem. Therefore, it is essential to impart HPC training to the application domain researchers. Objectives of the Workshop

- *To come up with the Bharat AgriGrid which is going to be the agriculture grid of the country.*
- *To identify the problems of the breeders and to design the solutions corresponding to the problems.*
- *To come up with sustainable agriculture solutions.*
- *To enable integration of developed Agriculture Grid on NSM grid with Ashoka Grid along with the novel agriculture solutions.*
- *To create integrated HPC commercial tools with available NSM Supercomputing facilities so that processing and analysis of data can be done in less time.*
- *To create a cloud based centralized repository of genome data termed as Bharat AgriGrid consists of both raw and processed genome sequence data.*
- *Characterization of new genes of plant species which are disease resistance, drought tolerant.*
- *Service framework for the entire agriculture community.*

No Registration Fee

Fill the Registration details:

https://docs.google.com/forms/d/e/1FAIpQLSdgNSeLceR5_8BDn7SiLthb8md4wqDpIzujGeCKAC14YHrSbO/viewform?usp=sf_link

Bar code:



The last date of Registration: June 27, 2022 till 11:59 PM

The meeting link will be intimated on registered e-mail: June 27, 2022

Contact:

Rajesh Dwivedi, SRF, Computer Science and Engineering, IIT Indore

Mail your queries at: nsm.agrigrid@gmail.com

Organizers:



Dr. Aruna Tiwari
IIT Indore



Dr. Milind Ratnaparkhe
ICAR-IISR Indore



Dr. Neha Bharill
Mahindra University
Hyderabad



Dr. Om Prakash Patel
Mahindra University
Hyderabad



Mr. Amit Saxena
C-DAC Pune



Dr. Sanjay Singh
CSIR-CEERI Pilani



Dr. M. Karthikeyan
CSIR-National Chemical
Laboratory, Pune



Prof. Mitali Mukherjee
IIT Jodhpur



Dr. Ayan Sadhukhan
IIT Jodhpur

Panel Discussion

Title: Bharat AgriGrid: Agriculture Applications Over NSM Grid



IAS Abhishek Singh
CEO Digital India



Smt. Sunita Verma
Scientist G,
Group Coordinator
(R&D in Electronics & IT)
Ministry of Electronics &
Information technology



Prof. Santanu
Chaudhury, Director,
IIT Jodhpur



Prof. Rajat Moona
Director, IIT Bhilai



Col. A K Nath (Retd.)
Executive Director
(Corporate Strategy and C-
DAC Pune)



Dr. Hemant Darbari
Mission Director NSM



Dr. Anil Rai
Assistant Director General
(ICT), ICAR, New Delhi



Dr. Nita Khandekar
Director, ICAR- Indian
Institute of Soybean
Research Indore



Prof. Suhas Joshi
Director, IIT Indore



Prof. Yajulu Medury
Vice Chancellor,
Mahindra University
Hyderabad



Dr. C R Mehta
Director,
ICAR - Central Institute of
Agricultural Engineering,
Bhopal



**Dr. Narendra S.
Chaudhari**
Professor, IIT Indore



Dr. Mark Post
Lecturer (Assistant
Professor) in Robotics
and Autonomous
Systems,
University of York, UK



Dr. Suresh Motwani
General Manager,
Solidaridad Network

Keynote Speakers



Dr. Anil Rai
Assistant Director General (ICT),
ICAR, New Delhi

Title of the talk:



Dr. Narendra Singh Rathore,
Vice-Chancellor, Maharana Pratap
University of Agriculture and
Technology, Udaipur

Title of the talk:



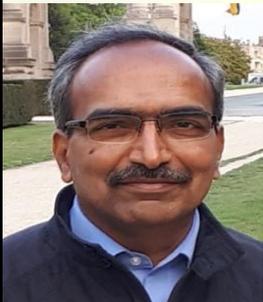
Prof. Hiroyuki Koyama
Gifu University

Title of the talk: **Data-driven
plant science and green
biotechnology for bioeconomy**



Dr. Rajesh Perianayagam
CEO Karyosoft company, USA

Title of the talk: **Agrigenomics:
Past, Present and Future**



Mr. Sanjay Wandhekar
HOD HPC, C-DAC Pune

Title of the talk: **National
Supercomputing Mission:
Towards Building Indigenous
Supercomputing Ecosystem**



Mr. Sandeep Malviya
Joint Director,
HPC-MBA Group C-DAC, Pune
On behalf of Dr. Rajendra Joshi

Title of the talk: **Designing the
solution for exascale genome
data analysis**



Mr. Ashish P Kuvelkar
Senior Director, C-DAC Pune

Title of the talk: **Leveraging
HPC for Agriculture**