

PRESS RELEASE

IIT Hyderabad to collaborate with Centre for Development of Advanced Computing (C-DAC) to establish a state-of-the-art 650 TFHPC facility under the National Supercomputing Mission (NSM)

Institute will provide necessary infrastructural support for the in-time set-up of the supercomputing facility at IIT Hyderabad.

HYDERABAD, 12th October 2020: Indian Institute of Technology Hyderabad is going to collaborate with the Centre for Development of Advanced Computing (C-DAC). The Institute is partnering with the C-DAC, to set-up a state-of-the-art 650 TFHPC facility under the National Supercomputing Mission (NSM) for the research and development activities. The MoU was signed in the gracious presence of Honourable Minister of State for Education, Communications, Electronics & IT, Government of India Shri Sanjay Dhotre.

Addressing the gathering Shri Dhotre said, “It is a great step in the direction of ‘Digital India’ & ‘Make in India’ and making ‘Atmanibhar Bharat’”.

The broad objectives defined for National Supercomputing Mission NSM are:

- To make India one of the world leaders in Supercomputing and to enhance India’s capability in solving grand challenge problems of national and global relevance
- To empower our scientists and researchers with state-of-the-art supercomputing facilities and enable them to carry out cutting-edge research in their respective domains
- To minimize redundancies and duplication of efforts, and optimize investments in supercomputing
- To attain global competitiveness and ensure self-reliance in the strategic area of supercomputing technology

Highlighting the importance of this collaboration, Prof B.S. Murty, Director, IIT Hyderabad, said, “IIT Hyderabad is a pioneer in the field of Artificial Intelligence. IIT Hyderabad is the first Institute in the country to launch a B.Tech. Programme in AI. With a strong base of close to 25 faculty in the Department of AI, IIT Hyderabad is looking forward to such opportunities to come up with many more innovations and research achievements in the field. IIT Hyderabad has also signed an MoU with



Govt. of Telangana who has declared year 2020 as year of AI, to work progressively in this emerging field. The purpose of this High-Performance Computing Centre is to solve grand challenges & problems of National Importance, to build 'Atmanirbhar Bharat'."

In addition to AI, IITH would like to use the HPC in the fields of Climate Change, multiscale modelling, additive manufacturing, smart mobility, cyber physical systems and health care. IITH has identified a few specific projects with HPC such as, Water Purification with Nano Tubes, Design & Optimization of Outer-space Hypersonic Vehicle, Telesurgery with true 3D visualization and 360° National Security Analytics. IITH has recently established a DRDO-IITH Research Cell and would like to collaborate with several DRDO labs with the help of the HPC. IITH has also already identified potential Collaborations with different Manufacturing industries, Government of Telangana (IT, Commercial Taxes and Police), Universities in Hyderabad (HCU, IIIT-H, JNTU, OU) and R&D Institutions (TIFR, CCMB, IICT).

The HPC also can significantly support various MTech level courses at IITH such as, AI, CSE, Data sciences, Networks & information security, Climate change, Additive manufacturing and Smart mobility.

On behalf of the Institute, Director Prof. B.S. Murty has signed the MoU in a virtual event organized by C-DAC. Officials from the ministry of electronics and information technology, department of science and technology, C-DAC and other premier institutes (participating in National Supercomputing Mission) were also present.

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About [IIT Hyderabad](#)

Indian Institute of Technology Hyderabad (IITH) is one of the six new Indian Institutes of Technology established by the Government of India in 2008. In a short span of **12** years, the institute built on an imposing **570**-acre campus and has been ranked among the top ten institutes for four consecutive years in the National Institute Ranking Framework (NIRF) released by the Ministry of Human Resource Development (MHRD), Government of India. The Institute was also ranked under Top **#20** in the recent edition of Atal Ranking of Institutions on Innovation Achievements (ARIIA) introduced this year by MHRD to systematically rank all major higher educational institutions and universities in India on indicators related to 'Innovation and Entrepreneurship Development' among students and faculties.

IIT Hyderabad has close to **221** full-time faculty, **2,855** students of whom **20** per cent are women, nearly **200** state-of-the-art laboratories and five



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Indian Institute of Technology Hyderabad

research and entrepreneurship centres. The Institute has a strong research focus with more than Rs. **500** crore of sanctioned research funding while PhD scholars account for about **30** per cent of total student strength. IITH students and faculty are at the forefront of innovation with more than **1,500** research publications and patent disclosures, **300** sponsored/ consultancy projects and more than **70** industry collaborations. IITH has MoUs with more than **60** universities in the U.S., Japan, Australia, Taiwan and Europe. IITH has been a pioneering change in pedagogy with fractal academic programmes that atomizes course modules, encourage interdisciplinary learning, spanning innovative technology, fundamental science, liberal arts and creative arts like photography, theatre and painting.

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