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INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

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FOR IMMEDIATE RELEASE

IIT Bombay Showcases Transformative Deep-Tech Innovations at Bharat Innovates 2026 (supported by Ministry of Education, Government of India), Nice, France

Mumbai, June 15, 2026: The future being imagined at IIT Bombay is multilingual, sustainable, intelligent, and deeply human. At Bharat Innovates 2026, supported by the Ministry of Education, Government of India, in Nice, France, the Institute will present a portfolio of breakthrough technologies addressing some of the defining challenges of our time, from education and artificial intelligence to clean energy, critical minerals, and next-generation infrastructure.

Among the projects being presented is the Technology Advancement in Next-generation Devices of Energy Materials (TANDEM) project, which is pioneering high-efficiency tandem solar cells that have the potential to redefine the future of photovoltaic technology, both on Earth and in space. Complementing this effort is a Solid State Transformer platform designed to enable the next generation of electrical infrastructure. By improving efficiency, reducing resource requirements, and supporting emerging applications such as AI data centres, renewable-energy systems, battery storage, and electric mobility, the technology offers a glimpse into the future of intelligent power delivery.

The Institute is also showcasing DhatuVerse, an AI-powered geostatistical platform that is set to transform mineral exploration. By integrating geological, geophysical, geochemical, borehole, LiDAR, and geospatial data into probabilistic 3D subsurface models, the platform enables more accurate resource discovery, reduces exploration risk, and helps accelerate the identification of critical mineral deposits essential for the global energy transition.

BharatGen, a nine-institution academic consortium anchored at IIT Bombay, is building multilingual foundational AI for Indian languages and communities. It's LLM suite spans text, speech recognition, text-to-speech, and document intelligence across 22 scheduled Indic languages,

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trained on a purpose-built corpus of curated Indian-language data. Active engagements in governance, financial services, healthcare, education, and cultural preservation demonstrate the foundation's applicability across sectors. Alongside it is TARA (Teacher's Assistant for Reading Assessment), a voice AI platform developed to strengthen literacy outcomes through objective, large-scale assessment of oral reading fluency. Already deployed across more than 1,200 Kendriya Vidyalaya schools and supporting the learning journeys of hundreds of thousands of students, the technology demonstrates how artificial intelligence can be harnessed to improve educational outcomes and support evidence-based interventions.

Reflecting on the significance of the technologies being presented, Prof. Shireesh Kedare, Director, IIT Bombay, said, “The technologies being showcased are the product of years of research, innovation, and translation across the IIT Bombay ecosystem. What is particularly exciting is that they address challenges that affect millions of people. Bharat Innovates provides an important opportunity to demonstrate how research emerging from Indian institutions can contribute to solving global challenges while creating meaningful societal impact.”

About IIT Bombay:

The Indian Institute of Technology Bombay, set up in 1958 as the second IIT, is recognised worldwide as a leader in the field of science and engineering education and research. The Institute was granted the status of ‘Institution of Eminence’ by the Ministry of Education (the then Ministry of Human Resources Development) on July 9, 2018. IIT Bombay is reputed for the quality of its faculty, cutting-edge research, industry relations, and the outstanding caliber of students graduating from its undergraduate and postgraduate programmes. The Institute has 81 academic divisions. Over the last six decades, more than 75,000 engineers and scientists have graduated from the Institute. It is served by 770 faculty, including 121 women faculty (plus 241 part-time faculty), considered not only amongst the best within the country but also highly recognised in the world for achievements in the field of education and research. On June 19, 2025, IIT Bombay was ranked 2nd in India and 129th in the world in the Quacquarelli Symonds (QS) World University Rankings for 2026.

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