

IBM, Tata Consultancy Services and Government of Andhra Pradesh Unveil Plans to Deploy India's Largest Quantum Computer in the Country's First Quantum Valley Tech Park

The Quantum Valley Tech Park to be anchored by next-generation IBM Quantum System Two

Tata Consultancy Services partnering with IBM to advance India's quantum algorithm and application development



Amaravati, India – May 2, 2025 — IBM (NYSE: [IBM](#)) and Tata Consultancy Services (BSE: 532540, NSE: TCS) are partnering to further develop India's quantum computing industry as part of the State of Andhra Pradesh's Quantum Valley Tech Park, currently being built in the capital city of Amaravati. IBM and Andhra Pradesh Government have entered into discussions that aim for the tech park to be anchored by an IBM Quantum System Two installation, with a 156-qubit Heron quantum processor, which would be the largest quantum computer in India as currently envisioned. Tata Consultancy Services (TCS) is also partnering with IBM to support the development of algorithms and applications that will help the Indian industry and academia solve some of the nation's most challenging problems. In that regard, TCS and IBM recently signed an agreement that will make cloud access to IBM's cloud-based quantum computers available to scientists and technologists in the region. The Government of Andhra Pradesh, IBM and TCS hope to accelerate the development of India's quantum ecosystem through this initiative.

"Our National Quantum Mission is to make India a global hub in the quantum industry; a true center of innovation and job creation with access to the technology capable of solving some of our country's and the world's most pressing and complex challenges," said **N. Chandrababu Naidu, Chief Minister of Andhra Pradesh** "With IBM, TCS, L&T, and other members, the Quantum Valley Technology Park represents how India's industry and academia will soon be able to take an important step forward in accelerating the achievement of the mission's goals."

"We are excited about our plans with the state of Andhra Pradesh to deploy our latest IBM Quantum System Two at the Quantum Valley Tech Park. Our collaboration with TCS will help attract the country's thriving ecosystem of developers, scientists, and industry experts to develop algorithms and applications. Combining this with India's National Quantum Mission we could see an acceleration of the next critical milestone – a successful demonstration of quantum advantage," said **Jay Gambetta, Vice President, IBM Quantum**.

Under a current agreement between IBM and TCS, Members of the Quantum Valley Tech Park will be able to work with TCS for the opportunity to access IBM's cloud-based quantum computers. In addition, once completed, the Quantum Valley Tech Park would include access to an IBM Quantum System Two with IBM's latest 156-qubit Heron processor, subject to issuance of appropriate export licenses and closing definitive agreements.

"Hybrid architectures are the key to overcoming intractable computing challenges, with quantum computing serving as a catalyst. TCS's Hybrid Computing strategy is creating what we believe is a breakthrough software layer that intelligently decomposes programs across current systems — CPUs, GPUs and emerging computing architectures — such as quantum. We're excited to be partnering with IBM, and the Government of Andhra Pradesh at the Quantum Valley Tech Park and support India's National Quantum Mission to accelerate the development of quantum algorithms and applications that solve complex intractable problems and drive both economic growth and technological innovation," said **Dr. Harrick Vin, Chief Technology Officer, Tata Consultancy Services**.

The capabilities of IBM's quantum computers, Qiskit software, and other resources look to enable India's growing ecosystem of innovators across academia and industry to discover how quantum computers could be applied toward solutions to complex challenges — such as those goals being pursued by the Government of Andhra Pradesh, via the Quantum Valley Tech Park, in contribution to the country's National Quantum Mission.

By establishing a vibrant quantum ecosystem encompassing research, access to quantum computers, and industry applications, the Government of Andhra Pradesh intends to create high-end jobs, attract top-tier talent, and draw global investments.

As part of this collaboration, TCS will play a pivotal role in driving India's applied research and innovation by developing quantum use cases across sectors such as life sciences, materials science, supply chain resilience, energy optimization, cryptography, and sustainable manufacturing. The goal is to unlock applications capable of a quantum advantage in solving practical industry problems that are currently beyond the reach of classical computing. TCS's role within the Quantum Valley Tech Park will give researchers from TCS, domain experts across Indian industry, and academic institutions alike the opportunity to leverage IBM's quantum computers and resources.

About Andhra Pradesh

Andhra Pradesh stands as India's most future-ready and innovation-driven state, widely recognized as the "Sunrise State" of the nation. Under the visionary leadership of Hon'ble Chief Minister Shri N. Chandrababu Naidu, the state has emerged as a national leader in driving technological advancement, infrastructure development, and economic growth. With a strategically important 974 km coastline—the second longest in India—Andhra Pradesh offers unparalleled access to global trade routes and serves as a hub for maritime and industrial activity. The state is making bold strides in emerging sectors including quantum technologies, artificial intelligence, green energy, and advanced manufacturing. With a strong focus on ease of doing business, a skilled talent pool, and a robust innovation ecosystem, Andhra Pradesh continues to attract significant domestic and international investment, reinforcing its position at the forefront of India's growth and transformation.

Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services (TCS) (BSE: 532540, NSE: TCS) is a digital transformation and technology partner of choice for industry-leading organizations worldwide. Since its inception in 1968, TCS has upheld the highest standards of innovation, engineering excellence and customer service.

Rooted in the heritage of the Tata Group, TCS is focused on creating long term value for its clients, its investors, its employees, and the community at large. With a highly skilled workforce of over 607,979 consultants in 55 countries and 180 service delivery centers across the world, the company has been recognized as a top employer in six continents. With the ability to rapidly apply and scale new technologies, the company has built long term partnerships with its clients – helping them emerge as perpetually adaptive enterprises. Many of these relationships have endured into decades and navigated every technology cycle, from mainframes in the 1970s to Artificial Intelligence today.

TCS sponsors 14 of the world's most prestigious marathons and endurance events, including the TCS New York City Marathon, TCS London Marathon and TCS Sydney Marathon with a focus on promoting health, sustainability, and community empowerment.

TCS generated consolidated revenues of over US \$30 billion in the fiscal year ended March 31, 2025. For more information, visit www.tcs.com

Follow TCS on [LinkedIn](#) | [Instagram](#) | [YouTube](#) | [X](#)

About IBM

IBM is a leading provider of global hybrid cloud and AI, and consulting expertise. We help clients in more than 175 countries capitalize on insights from their data, streamline business processes, reduce costs and gain the competitive edge in their industries. Thousands of governments and corporate entities in critical infrastructure areas such as financial services, telecommunications and healthcare rely on IBM's hybrid cloud platform and Red Hat OpenShift to affect their digital transformations quickly, efficiently and securely. IBM's breakthrough innovations in AI, quantum computing, industry-specific cloud solutions and consulting deliver open and flexible options to our clients. All of this is backed by IBM's long-standing commitment to trust, transparency, responsibility, inclusivity and service. Visit ibm.com for more information.

Media Contact:

IBM

Antonetta Kumar
IBM India
antonkum@in.ibm.com

Chris Nay
IBM Research
cnay@us.ibm.com

TCS contact

Corporate Communications & India

Email: corporate.communications@tcs.com

Email: saxena.kritika@tcs.com | Phone: +91 22 6778 9999

Email: kimberly.solomon@tcs.com | Phone: +91 22 67789098

Government of Andhra Pradesh contact

Sri.Himanshu Shukla, IAS

Director I&PR

commissioner.ipr.ap@gmail.com

Phone: +91 83740 43888

<https://stage.mediaroom.com/ibmnewsroom/2025-05-02-ibm,-tata-consultancy-services-and-government-of-andhra-pradesh-unveil-plans-to-deploy-indias-largest-quantum-computer-in-the-countrys-first-quantum-valley-tech-park>