

9 experts to address Quantum India Bengaluru 2025 on healthcare

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Karnataka to host India's first Quantum India Bengaluru Summit 2025 on July 31



Nine experts from both India and abroad will be discussing the various topics related to Quantum in Healthcare at the two-day Quantum India Bengaluru Summit 2025 starting from July 31 in Bangalore organised by Karnataka Science and Technology Promotion Society (KSTePS), Department of Science & Technology, Government of Karnataka and the IISc Quantum Technology Initiative (IQTI).

The experts who will be addressing the sessions on healthcare on July 31 include Dr Anupama Ray, Senior Research Scientist at IBM Research, India Research Labs, Bangalore India; Prof. Varun Raghunathan, Associate Professor in the Department of Electrical communication Engineering, IISc; Prof. Songi Han, Professor in the Department of Chemistry and Biochemistry at Northwestern University and Dr Pranab Dutta, CEO and Co-founder GDQLABS.

On day -2 panel chaired by Prof. Kasturi Saha, IIT, Bombay and comprising Prof. Vijay Chandru, Co-founder and Chairman of Strand Life Sciences; Prof. Deepak Saini, Professor at the Department of Developmental Biology & Genetics, IISc, Prof. Songi Han; Dr Shesha Raghunathan, Quantum Computing & Deep Tech Leader and Strategic Partnerships Lead - IBM Quantum, Sohil Bhagat, Managing Director at pi Ventures and Dr Pranab Dutta will discuss many other issues in quantum research.

Quantum computing research in healthcare is rapidly evolving, with potential to revolutionise drug discovery, diagnostics, and personalised medicine. Quantum algorithms can simulate molecular interactions with greater accuracy and speed, potentially

accelerating drug development. Quantum sensors could enable earlier and more precise disease detection by detecting biomarkers at previously unattainable levels. Furthermore, quantum computing's ability to process vast datasets could lead to more personalised treatment plans and improved clinical trial design.

Quantum computing has the potential to speed up progress in healthcare and pharmaceuticals, tackling some of the most intricate issues in drug discovery, diagnostics, personalized medicine, and healthcare provision. Global researchers are collaborating with the healthcare, pharmaceutical, and life sciences industries to investigate how quantum computing can enhance innovation, boost patient results, and revolutionise healthcare systems. By speeding up molecular simulations and improving clinical trial design, as well as streamlining healthcare operations, quantum computing presents a novel computational approach that has the potential to surpass the constraints of current traditional technologies.