MAHALAKSHMI
TECH CAMPUS
CHROMPET
INSTITUTE OF ENGINEERS
(APPROVED BY AICTE AND AFFLIATED TO ANNA UNIVERSITY, CHENNAI)

SHAPING INNOVATORS, EMPOWERING CHANGE

Corporate Training Program
On Quantum Computing Technology

Contact Us

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No:1, Bharathiyar street, Prashanthi Nagar,
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Corporate Training Program On
Quantum Computing Technology

POWERED BY MAHA FUTURE TECH HUB AT MAHALAKSHMI TECH CAMPUS

Patron
Sri.R.Ravi
Chairman
Mahalakshmi Group of Institutions

Duration: 7 Weeks
Mode: Online (Mon–Fri, 3 Hours/Day)
Starting from :18.08.2025
For Academicians, Students and self-employed special concessions will be given

STEP INTO THE QUANTUM ERA

Welcome to an elite industry-aligned Corporate Training Program brought to you by Maha Future Tech Hub of **Mahalakshmi Tech Campus**
a pioneering initiative to nurture next-gen tech talent in India.

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This 7-week intensive course on **Corporate Training Program on Quantum Computing Technology** is crafted for IT professionals, researchers, and Decision-makers who are ready to lead in the next technological revolution. Get hands-on training from domain experts and explore quantum computing from theory to advanced implementation.

Why Quantum Computing?

Quantum computing is more than the future. It`s the frontier of solving problems that classical computers can't. It leverage the principles of quantum mechanics to process vast amounts of information simultaneously, transforming fields like:

• **Pharmaceuticals (drug discovery at molecular levels)**
• **Finance (faster risk modeling and fraud detection)**
• **Cybersecurity (quantum encryption and key distribution)**
• **Artificial Intelligence (quantum-enhanced learning models)**

As global tech giants and research institutes invest heavily in this space, upskilling in quantum technologies today opens unmatched opportunities tomorrow.

Program Highlights

• **Expert-Led Live Sessions**
    Learn from researchers and practitioners in quantum computing.

• **Hands-On Project Work Every Week**
    Apply your learning through 7 structured mini-projects + final capstone.

• **Cutting-Edge Tools & Platforms**
    Work on real platforms: IBM Qiskit, Microsoft QDK, Amazon Braket & more.

• **Career-Focused Learning**
    Suitable for teams in AI, cybersecurity, data science, and R&D.

• **Certificate of Excellence**
     Earn a recognized certificate from Mahalakshmi Tech Campus.

Program Structure & Weekly Plan

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Week 1: Foundations of Quantum Computing
- Introduction to Quantum Computing
- Overview of Current Quantum Hardware
- Quantum Cloud Platforms (IBM, AWS, Azure)
- Programming Environments & Getting Started

Week 2: Quantum Programming & Circuit Design
- Quantum Operations & Logic Gates
- Circuit Construction & Visualization
- Simulation Tools (Qiskit, PennyLane, Cirq etc.)
- Mini Project: Circuit Implementation

Week 3: Quantum Algorithm Design Strategies
- Intro to Quantum Algorithms
- Amplitude Amplification & Fourier Transform
- Phase Estimation Method
- Mini Project: Algorithm Design Strategy

Week 4: Quantum Algorithms and Implementations
- Deutsch Algorithm & Deutsch-Jozsa Algorithm
- Bernstein-Vazirani & Simon's Algorithm
- Grover's Search & Shor's Factoring
- Mini Project: Algorithm Implementation

Week 5: Quantum-Based Machine Intelligence
- Quantum Machine & Deep Learning Concepts
- Data Encoding & Hybrid Quantum Models
- Quantum Feature Maps & Optimization
- Mini Project: Hybrid Classifier Design

Week 6: Quantum Communication & Cryptology
- Quantum Teleportation & Superdense Coding
- Quantum Key Distribution (QKD) Protocols
- Post-Quantum Cryptography & Threat Analysis
- Mini Project: QKD Protocol Simulation

Week 7: Final Capstone & Real-World Applications
- End-to-End Quantum Algorithm Implementation
- Real-World Use Cases & Case Studies
- Team-Based Capstone Project
- Presentations, Peer Review, & Expert Feedback
- Certification Ceremony

Who Should Enroll?
- IT Professionals & Tech Leads
- Corporate R&D Teams
- AI, ML, and Cybersecurity Engineers
- Government & Academic Researchers
- CTOs, CIOs, and Strategic Planners

About Maha Future Tech Hub @ Mahalakshmi Tech Campus

Maha Future Tech Hub, an initiative of Mahalakshmi Tech Campus, is committed to Shaping the tech leaders of tomorrow by offering advanced, industry-relevant Programs in AI, quantum computing, blockchain, and cybersecurity. With cutting-edge Labs, global academic collaborations, and a strong corporate training ecosystem, the Campus is positioned as a beacon for future technologies in India.

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Program Architects

Dr. Srinivas Gumparthi
Program Director
Dean -Strategic Planning
Maha Future Tech

Sri. R. Ghuhan
Director
Maha Future Tech Hub

Program Advisors

Dr. Kapil Kumar Soni
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Visit us at : www.mahalakshmitechcampus.com
Location : Mahalakshmi Tech Campus,Chromepet,Chennai 600044
Email : mfth@mtcchennai.com
Call : +9444104060

Registration Details
• **Fee: Rs.50000 per participant** (Avail early registration incentives)
• **Mode**: 100% Online (Live Sessions)
• **Limited Seats** – Early registration is highly recommended.

Registrations Now Open! Secure Your Seat in India's Premier Quantum Training Program.

Next Steps
Ready to Join? Contact us for registration assistance or
Corporate group enrollment.
Want a brochure copy or invoice? We'll send it your way!
Lead the Future. Learn Quantum Now.

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