SRM | QKRISHI
SQ
CENTRE OF EXCELLENCE IN QUANTUM INFORMATION AND COMPUTING

Our Mission

<SQ|QuIC> has the mission to invent and develop new technology to reshape whole industries to help India take leadership in the quantum era.

Main Goal

Create a collaborative platform for SRMIST students and faculty to work with industry, aiming to publish papers, file patents, and develop solutions for real-world problems

Contact Us

Contact Person :
Dr.M.Gayathri,
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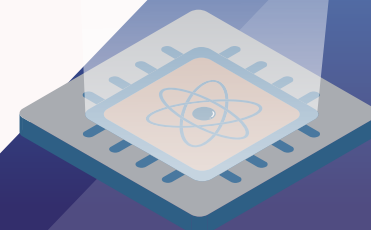
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About Company

Qkrishi Quantum and SRMIST partnered to create <SQ|QuIC> , a center for quantum computing research. The first of its kind in a private Indian university, <SQ|QuIC> will focus on cutting-edge quantum algorithms and applications, with contributions from SRM faculty, research students, and Qkrishi scientists.

OUR MAJOR PROJECTS

1. Data Protection using QKD
2. Protein Folding
3. Portfolio Optimzation
4. Forex Trading
5. Electricity Theft Prediction using QML

Live Course

SRM Qkrishi Centre of Excellence in Quantum Information and Computing is offering a live course called "Quantum computing for Managers" from March 4,2023, to May 6, 2023, To Industry leaders. SRMIST faculty and Qkrishi Scientists deliver the course.

Achievements of Student

Harishankar - Intern at QuLab
S.SuryaPrakash - QBronze Certified
Kalaiyarasan - QBronze Certified
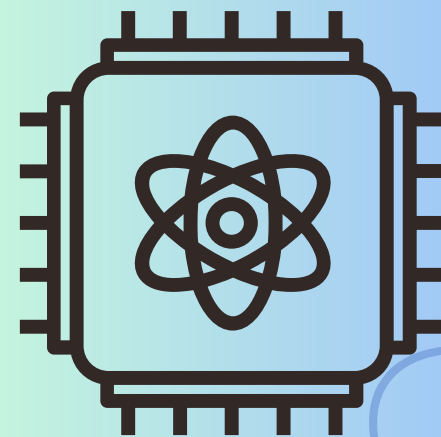Saaru Dharshini- QisKit Foundations

Skillset of <SQ|QuIC> Faculties:

- Dr.Gayathri.M has Completed a certification course on "Quantum Computing for Managers" conducted by Birla Institute of Management Technology and Qkrishi from Feb 19 2022 to May 14 2022.(3 Month course).
- Dr.Usha.G has completed a fundamental course on Udemy (2022)
- Dr.G.K.Sandhia has completed course on "Inroduction to Quantum Information" on coursera

Achievements in <SQ|QuIC>:

1. Out of 1152 teams, SRM Qkrishi has bagged fourth place for Protein Folding as a special mention in QETCI Hackathon for Protein Folding.
2. Barclays Data Stellar Hackathon organized by Barclays and HackerEarth in 2023 bagged the first prize for their work on Data Protections using Quantum key distribution by Naman Kaushik and Sajidullah Ansari.
3. Dr.P.C Karthick from <SQ |QuIC > has obtained his Intermediate batch from IBM for solving the prestigious IBM Quantum Challenge Fall 2022.
4. Total Scopus Indexed Research publications related to Quantum Computing - 9

Technical Talk from < SQ|QuIC> :

- Dr.Pushpalatha.M has delivered a session on Quantum cryptography at Srikrishna college ,Coimbatore(Dec 21 2022)
- Dr.Gayathri.M has delivered a hands-on session in BB84 PROTOCOL at Srikrishna college ,Coimbatore(Dec 21 2022).
- Dr.Gayathri.M has delivered a session on "quantum computing" @ Dhanalakshmi college of Engineering and Technology, Manimangalam,Tambaram.

EDX COURSE

The Linux Foundation course is now live on edX https://lnkd.in/dzdgbrYV Taught by Chetan Waghela (Qkrishi), Dr. Gayathri MA, Assistant Professor, Department of Computing Technologies, School of Computing, SRMIST, Kattankulathur, Chennai, Tamil Nadu) and Dr. Anupama Ray (IBM), this self-paced free course will help you learn the fundamentals of quantum computing and build your capacity for performing quantum experiments using quantum computers on the cloud. This is the first among the many courses from the team at SRM Qkrishi CoE in Quantum

About the instructors

Chetan Waghela
Advisory Research Scientist • Qkrishi Quantum Pvt. Ltd.

Gayathri Mani
Assistant Professor in the Department of Computing Technologies • S.R.M Institute of Science and Technology

Anupama Ray
Advisory Research Scientist • IBM Research