M Gmail   **Hai Jiang <hai.hjiang@gmail.com>**

[qci-external] QCI News No. 09, Vol. 10

ORNL Quantum Computing Institute (qtu) via qci-external <qci-external@elist.ornl.gov>   Mon, Mar 4, 2024 at 8:18 AM

Reply-To: "ORNL Quantum Computing Institute (qtu)" <quantum@ornl.gov>
To: "qci-announcements@email.ornl.gov" <qci-announcements@email.ornl.gov>, "qci-external@elist.ornl.gov" <qci-external@elist.ornl.gov>

Quantum Computing Institute News, No. 09, Vol. 10 (2024)

These links are compiled by the QCI to report on recent events in quantum computing and quantum information. If you would like to contribute to next week's news, please forward suggestions to quantum@ornl.gov. New subscriptions, subscription management, and archived messages for the mailing list are available at https://elist.ornl.gov/mailman/listinfo/qci-external

**Special Notice: The QCI newsletter will not be delivered next week on 10 March 2024. Delivery will resume the following week on 17 March 2024.

News and Press Releases

France Advances Quantum Technology Export Controls under New EU Regulation Framework

According to the government, the rules specifically addresses a variety of quantum technologies, including quantum computers that support a broad spectrum of fully controlled, connected and functional physical qubits.

China Mass Producing Dilution Refrigerator Critical to Superconducting Quantum Computing

The Anhui Quantum Computing Engineering Research Center and QuantumCTek Corp, known for their pioneering work in quantum communication-based encryption, independently developed the EZ-Q Fridge.

Government of Canada Supports Xanadu to Accelerate Quantum Computing Research and Education

This funding, through the Regional Quantum Initiative (RQI), will accelerate the development of PennyLane, Xanadu's open-source, cloud-based software framework for quantum machine learning, quantum chemistry, and quantum computing.

Riverlane and Rigetti Computing Partner with ORNL to Work to Improve HPC-Quantum Integration

The project partners will build the first-ever benchmarking suite ('QStone') for measuring the performance of a joint HPC + Quantum system. It will be run on ORNL's Summit, the fifth fastest supercomputer in the world, developed by IBM in 2018.

Port of Rotterdam tests 'untappable' quantum network

This is reported by Delft University of Technology, from which the provider of the network, Q*Bird, originated. The Port of Rotterdam Authority, where the central computer of the system will be located, and the port communication system

Portbase are already using it on a test basis.

Quantum Computing Inc. Launches Quantum Optimization Machine

Dirac is a nanophotonic machine designed to address complex problems with larger numbers of variables that require unconventional solutions through the use of nonlinear quantum optics.

Quantum Machines Unveils New DDS Microwave Front-End Module, Elevating Quantum Computing Control

OPX1000 and MW-FEM will be on display in booth #1317 at the APS March Meeting in Minneapolis, March 5-7, 2024.

LTIMindtree and IBM Partner to Advance the Quantum Innovation Ecosystem

LTIMindtree is the first Indian Global System Integrator (GSI) to join the IBM Quantum Network.

Q-CTRL Partners with Wolfram, Qblox, and Others to Deliver a Complete Quantum Computing Toolset

They integrate Q-CTRL's AI-driven performance-management software and quantum control capabilities with diverse hardware and software platforms, making it easier for everyone from students to enterprise developers to access Q-CTRL's leading technology.

D-Wave Launches Starter Course for Aspiring Quantum Programmers, Bridging the Skills Gap

This self-paced, online course equips learners with essential mathematics and Python skills, laying a solid foundation for success with D-Wave's flagship course, "Quantum Programming Core."

DOE Awards Argonne Lab $4M for Energy-Efficient Microchip Research

Threadwork is a research program that applies co-design to develop neuromorphic devices and terahertz interconnects that will enable high-performance detectors for high energy physics and nuclear physics.

Graphene Advances Could Lead to More Robust Quantum Computing

They found that when five sheets of graphene are stacked like steps on a staircase, the resulting structure inherently provides just the right conditions for electrons to pass through as fractions of their total charge, with no need for any external magnetic field.

Scientists Develop a Technique to Protect a Quantum-era Metaverse

Their approach, called Long-Distance Free-Space Quantum Secure Direct Communication (LF QSDC), promises to improve data security by enabling encrypted direct messaging without the need for key exchange, a method traditionally vulnerable to quantum attacks.

Umbrella for atoms: The first protective layer for 2D quantum materials

Researchers at the Würzburg-Dresden Cluster of Excellence have engineered a protective film that shields quantum semiconductor layers just one atom thick from environmental influences without compromising their revolutionary quantum properties.

Calls for Abstracts and Papers (by due date)

2024:

11 Mar: Call for Abstracts: Quantum Computing Circuits, Systems, Automation, and Applications

10 Apr: Call for Abstracts: Adiabatic Quantum Computing

31 Mar: Call for Papers: Special Issue on Quantum Algorithms and Quantum Computing

31 Mar: Call for Papers: Special Issue on Plasma and Quantum Information Sciences

30 Apr: Call for Papers: Special Issue on Quantum Walks for Quantum Technologies

30 Apr: Call for Papers: Special Issue on Recent Advances in Optical Quantum Information Processing

30 May: Call for Abstracts: Economics of Quantum Information Technology

24 Oct: Call for Papers: Special Issue on Quantum Software and its Engineering

Calls for Proposals and Requests for Information (by due date)

2024:

28 Feb: US DOE Building EPSCoR-State/National Laboratory Partnerships

28 Feb: Intelligence Community Postdoctoral Research Fellowship Program

15 Mar: US QIS Summer School

28 Mar: US DOE Computational Materials Science - Exploratory Research at the Exascale

25 Apr: US DOE Early Career Research Program

30 Apr: US DOE Competitive Portfolios for Advanced Scientific Computing Research

1 May: US DOE Office of Science Graduate Student Research Awards

2 May: US DOE Exploratory Research for Extreme-Scale Science

7 May: US DOE Data Reduction

8 May: US DOE Accelerated Research in Quantum Computing

2026:

30 Apr: Call for Proposals US ARO LPS Qubits Collaboratory

Select Schools, Competitions, Hackathons, and Tutorials (by date)

15-26 Jul: US QIS Summer School

9-11 Aug: QSIM Summer School

Select Conferences, Workshops, and Standards (by date)

2024:

4-8 Mar: APS March Meeting

5-7 Mar: 2024 Energy High Performance Computing Conference

12-15 Mar: Q-SANER

18-22 Mar: Quantum Complexity: Quantum PCP, Area Laws, and Quantum Gravity

10 -12 Apr: NIST Post-Quantum Cryptography Standardization Conference

16-18 Apr: QCTIP

22-24 Apr: Bristol Quantum Information Technologies Workshop

25-26 Apr: Quantum.Tech

5 - 10 May: CLEO 2024

7-10 May: Quantum Matter

12-16 May: ISC

12-16 May: Workshop on Quantum and Hybrid Quantum/Classical Computing Approaches

10-14 Jun: Adiabatic Quantum Computing

17-20 Jun: Photonics for Quantum

17-21 Jun: Symposium on Principles of Distributed Computing

23-27 Jun: Optica Quantum 2.0

23-27 Jun: Design Automation Conference

24-28 Jun: Symposium on Theory of Computing (STOC)

28 Jul – 2 Aug: Many-Body Quantum Systems: Quantum Computing, Simulation, Sensing, and Emerging Platforms

1-3 Jul: International Conference on Quantum Communications, Networking, and Computing

1-3 Jul: International Workshop on Quantum Computing: Circuits Systems Automation and Applications

12-15 Aug: Quantum Computing User Forum

12-16 Aug: Annual Conference on Quantum Simulation (QSim)

18-22 Aug: SPIE Optics + Photonics

26-30 Aug: International Conference on Quantum Information and Quantum Control

9-13 Sep: Theory of Quantum Computation, Communication and Cryptography (TQC)

Mid-OCT: Economics of Quantum Information Technology

4-8 Nov: International Conference on Spin-Based Quantum Information Processing

18-22 Nov: Single Photon Workshop

Global List of Open Quantum Technology Jobs

This data is provided for individual use only. Data is provided on a best-effort basis.

Job Postings (100 new)

- (Senior) Consultant Technology Incubation Quantum.Link - The Garage (m/w/d) (Deloitte)

- 2 PhD-positions for boundaries of a quantum advantage (University of Twente)

- AC-Support staff in Quantum Computing with possibility of research time at Danish universities (3... (Technical University of Denmark (DTU))

- AI engineer // AI工程師 (Hong Kong Quantum AI Lab Ltd)

- Advanced Experimental Physicist (Quantinuum)

- Advanced Quantum Testbed Project Scientist (Lawrence Berkeley National Laboratory - Berkeley Lab (LBNL))

- C++ Software Development Engineer - Mesh Generation Algorithm // C++ 软件开发工程师 - 网格生成算法 (Hong Kong Quantum AI Lab Ltd)

- CFO - Quantum Computing (Quandela)

- CFO, VC-backed Quantum Computer Manufacturing Company on IPO track, Munich, or Helsinki, Finland (PER, Private Equity Recruitment)

- Cell process and testing engineer // 電芯製程及測試工程師 (Hong Kong Quantum AI Lab Ltd)

- Chief of Staff MBA Internship (SandboxAQ)

- Co-Founder and Chief Investment / Operating Officer (AiLifePay)

- Digital Electronics Engineer (Universal Quantum)

- Digital Innovation Analyst, Intern (EDF Innovation Lab)

- Electronics Engineer // 電子工程師 (Hong Kong Quantum AI Lab Ltd)

- Entangled-Photon Source Research Engineer (Quandela)

- Executive Assistant (Universal Quantum)

- Fabrication Hardware Engineer, Hardware Engineer, Quantum AI (Google)

- Finance Assistant (Oxford Quantum Circuits)

- Foundry Integration Engineer, Quantum AI (Google)

- General Application for Future London UK Opportunities (Pasqal)

- HPC Software Engineer (Quantinuum)

- HR Specialist // 人力資源專員 (Hong Kong Quantum AI Lab Ltd)

- Hardware Engineer, Facility Process Controls, Quantum AI (Google)

- Head of Integrated Photonics (CyberCoders)

- Head of Marketing and Sales Department // 市場銷售部負責人 (Hong Kong Quantum AI Lab Ltd)

- Join VTT's opportunities in Microelectronics and Quantum Technology (VTT Technical Research Centre of Finland Ltd)

- Lead Researcher – Quantum Machine Learning (Terra Quantum)

- Master's Thesis (Quantum Diamonds GmbH)

- Materials R&D Engineer/Postdoc/Scientist // 材料研發工程師/博士後/科學家 (Hong Kong Quantum AI Lab Ltd)

- Mechanical Engineers // 機械工程師 (Hong Kong Quantum AI Lab Ltd)

- NLP algorithm engineer/postdoc/scientist // NLP演算法工程師/博後/科學家 (Hong Kong Quantum AI Lab Ltd)

- Optical Engineering Internship (Quantinuum)

- PhD in 'From fundamental electronic structure theory to quantum devices' (Tyndall National Institute)

- PhD student Quantum light sources (University of Twente)

- Post-doctoral position in chip-integrated infrared colloidal quantum dot lasers CIDO // plaça de Post-doctoral position in chip-integrated infrared colloidal quantum dot lasers CIDO (The Institute of Photonic Sciences / Institut de Ciències Fotòniques (ICFO))

- Post-doctoral position in chip-integrated infrared colloidal quantum dot lasers (The Institute of Photonic Sciences / Institut de Ciències Fotòniques (ICFO))

- Postdoc in Long-Distance Quantum Communications DTU Physics (Technical University of Denmark (DTU))

- Postdoc position on comparison between quantum advantage strategies, NWO Vidi (University of Twente)

- Postdoctoral Researchers in Quantum Nanomechanics (Springer Nature Group)

- Product Support Engineer - Quantum Chemistry (Quantinuum)

- Project Officer - Quantum Sensing - School of Physics and Astronomy - 103360 - Grade 6 (University of Birmingham)

- Quant/Quantum Developer (PSRTEK)

- Quantum Algorithms Research Scientist, Quantum AI (Google)

- Quantum Application Engineer / Scientist (m/f/d) (TOPTICA Photonics)

- Quantum Calibration Research Scientist - Goleta or Los Angeles (Google)

- Quantum Computing Device Engineer, Spin Qubits (Interuniversity Microelectronics Centre (IMEC))

- Quantum Computing Engineer (Computer World Services)

- Quantum Computing Researcher (Tech Advisory Panel)

- Quantum Engineer (Cubiq Recruitment)

- Quantum Engineer (Legacy Talent Partners)

- Quantum Error Correction Research Scientist, Quantum AI (Google)

- Quantum Integrated Circuit (IC) Designer (Rigetti)

- Quantum Research Scientist, Chip Architecture Gates Integration (Google)

- Quantum Sensing Research Engineer (ADAPT Technology LLC.)

- Quantum Supercomputing Researcher (Commonwealth Scientific and Industrial Research Organisation (CSIRO))

- R&D Manager - Technology Development - 1589 (Quantinuum)

- R&D Software Engineer - Quantum Pro (Keysight Technologies)

- Research Associate (Postdoc) in Quantum Software Engineering (University of Luxembourg)

- Research Associate / Senior Research Associate in Quantum Computing Theory (University of Bristol)

- Research Associate/Senior Research Associate in Quantum Communications Systems (Springer Nature Group)

- Research Grants and Finance Officer (PhaseCraft)

- Research Science Intern (Quantum) (IBM)

- Research Scientist, Applied Quantum Algorithms (Quantinuum)

- Research Scientist, Control Stack, AWS Center for Quantum Computing (Amazon)

- Research Scientist, Electromagnetic Modeling and Analytics, Quantum AI (Google)

- Research Scientist, MonArk Quantum Foundry (Montana State University)

- Research Scientist, Quantum Gates, Quantum AI (Google)

- Research Scientist, Quantum Readout and Reset Integration (Google)

- Research Scientist, Superconducting quantum circuits (VTT Technical Research Centre of Finland Ltd)

- Research Scientist, System Optimization and Stability, Quantum AI (Google)

- SW Engineer (Quantum Machines)

- Scientific Project Senior Manager (National University of Singapore)

- Senior Fabrication Quantum Engineer (Cubiq Recruitment)

- Senior Mechanical Design Engineer (Nu Quantum)

- Senior Mechanical Engineer - Packaging (IonQ)

- Senior Quantum Simulation Engineer (Microsoft)

- Senior Researcher - Quantum Error Correction and Fault-Tolerance (Entropica Labs)

- Senior Scientist, Quantum algorithms and software (VTT Technical Research Centre of Finland Ltd)

- Senior Scientist, Superconducting quantum circuits (VTT Technical Research Centre of Finland Ltd)

- Software Development Engineer // 軟件開發工程師 (Hong Kong Quantum AI Lab Ltd)

- Software Engineer (QubitSolve Inc.)

- Software Engineer - Quantum Programming (HRL Laboratories)

- Speculative Application (m/f/d) (Quantistry GmbH)

- Staff Power Engineer (IonQ)

- Staff Research Physicist- Diamond Quantum Devices and Microelectronics (Princeton Plasma Physics Laboratory (PPL))

- Staff Research Physicist- Diamond Quantum Devices and Microelectronics (Princeton University)

- Student Assistant - Quantum Computing / Quantum Circuit Compilation (Fraunhofer USA, Inc.)

- Student Assistant Quantum Communication (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut (HHI) - Fraunhofer HHI - Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut)

- Sustaining Test Systems Engineer, Quantum AI (Google)

- TCAD software development engineer // TCAD軟件開發工程師 (Hong Kong Quantum AI Lab Ltd)

- Tech Staff - Quantum Optics Engineer (MIT Lincoln Laboratory)

- Technical Prize Director, Quantum Applications (XPRIZE)

- Technical Prize Director, Quantum Applications (XPRIZE Foundation)

- Technical Program Manager III, Hardware Development, Quantum Research (Google)

- Web Backend Development (f/m/d) for Bavarian Quantum Portal (Leibniz Supercomputing Centre (Leibniz-Rechenzentrum, LRZ))

- Werkstudent (m/w/d) im Bereich Human Resources, People and Culture (Kipu Quantum)

- Working Student (m/w/d) in Human Resources, People and Culture (Kipu Quantum)

- [Researcher] [Cloud-native quantum secured developments - NETCOM-lab Group] [2024] (Fundación IMDEA Networks)

- electrical engineer // 電機工程師 (Hong Kong Quantum AI Lab Ltd)

Job Postings (259 current)

- (Senior) Consultant Technology Incubation Quantum.Link - The Garage (m/w/d) (Deloitte)

- AC-Support staff in Quantum Computing with possibility of research time at Danish universities (3... (Technical University of Denmark (DTU))

- AI engineer // AI工程師 (Hong Kong Quantum AI Lab Ltd)

- Advanced Experimental Physicist (Quantinuum)

- Advanced Quantum Testbed Project Scientist (Lawrence Berkeley National Laboratory - Berkeley Lab (LBNL))

- Aerospace Engineers, Mathematicians, Computer Scientists or similar (f/m/x) (DLR-(German Aerospace Center)Deutsches Zentrum fr Luft- und Raumfahrt)

- Analog/Mixed-Signal IC Design Engineer (NordAmps)

- Application Physicist for Quantum Network, Detectors, and Integration (Fermi National Accelerator Laboratory (Fermilab))

- Back End Developer- Quantum (IBM)

- Backend Software Engineer (SandboxAQ)

- Business Development Executive – Research Investment Office (IBM)

- C++ Software Development Engineer - Mesh Generation Algorithm // C++ 软件开发工程师 - 网格生成算法 (Hong Kong Quantum AI Lab Ltd)

- CFO - Quantum Computing (Quandela)

- CFO, VC-backed Quantum Computer Manufacturing Company on IPO track, Munich, or Helsinki, Finland (PER, Private Equity Recruitment)

- COO & CEO for Deep Tech Photonics Startup (Deeplight)

- Cell process and testing engineer // 電芯製程及測試工程師 (Hong Kong Quantum AI Lab Ltd)

- Chemist, physicis, engineer or similar (f/m/x) (DLR-(German Aerospace Center)Deutsches Zentrum fr Luft- und Raumfahrt)

- Chief Operating Officer (Unity Partners)

- Chief Technology Officer (CTO) / Managing Director with R&D experience to establish a new business unit of a start-up in Germany (Deeplight)

- Co-Founder and Chief Investment / Operating Officer (AiLifePay)

- Digital Electronics Engineer (Universal Quantum)

- Director's Assistant (IBS Center for Quantum Nanoscience focuses (QNS))

- Electrical Engineer for Quantum Computing Systems (Alice & Bob)

- Electronics Engineer (PCB & Schematics) (Terra Quantum)

- Electronics Engineer // 電子工程師 (Hong Kong Quantum AI Lab Ltd)

- Electronics Technician (80 - 100 %) // Elektroniker:in EFZ (Basel Precision Instruments GmbH)

- Embedded Software Engineer (Universal Quantum)

- Engineer for QuantumCryptoLab Research Infrastructure (Fundacio i2CAT)

- Engineer in modeling of quantum sensors for the mission CARIOQA (M/F) (National Center for Scientific Research (Le Centre national de la recherche scientifique; CNRS))

- Entangled-Photon Source Research Engineer (Quandela)

- Enterprise Sales Specialists (01 Communique)

- Executive Assistant (Universal Quantum)

- Executive Director (Connecticut Innovations (Quantum CT))

- Experienced quantum error correction scientist (Quandela)

- Experimental Physicist for Quantum Computing and Networking (Lawrence Berkeley National Laboratory - Berkeley Lab (LBNL))

- Expression of Interest with First Quantum (Workforce Australia for Individuals)

- FPGA Development Engineer (FPGA/ASIC Design/Verification/Implementation) (Universal Quantum)

- Fabrication Engineer (Barrington James)

- Fabrication Engineer (ID 2327) (LIGENTEC SA)

- Fabrication Hardware Engineer, Hardware Engineer, Quantum AI (Google)

- Fabrication Hardware Engineer, Quantum AI (Google)

- Field Applications Engineer (m/w/d) (FormFactor, Incorporated)

- Finance Assistant (Oxford Quantum Circuits)

- Foundry Integration Engineer, Quantum AI (Google)

- Full Stack Engineer (PsiQuantum)

- Full Stack Engineer (Tata Communications)

- Full-Stack Blockchain Engineers (01 Communique)

- General Application for Future London UK Opportunities (Pasqal)

- General Software Engineers (01 Communique)

- HPC Software Engineer (Quantinuum)

- HR Specialist // 人力資源專員 (Hong Kong Quantum AI Lab Ltd)

- Hardware Engineer, Design and Test, Quantum AI (Google)

- Hardware Engineer, Facility Process Controls, Quantum AI (Google)

- Hardware Engineer, Quantum AI (Google)

- Hardware Lab Generalist, Cryogenics, Quantum AI (Google)

- Head of Business - Quantum Computing (Barrington James)

- Head of Finance (Quantware)

- Head of Integrated Photonics (Barrington James)

- Head of Integrated Photonics (CyberCoders)

- Head of Integrated Photonics (ORCA Computing)

- Head of Manufacturing (Barrington James)

- Head of Marketing (Multiverse Computing)

- Head of Marketing and Sales Department // 市場銷售部負責人 (Hong Kong Quantum AI Lab Ltd)

- High-Performance Computing Engineer (Agnostiq)

- Higher Scientist - Semiconductor Quantum Devices (Council Of Scientific And Industrial Research–National Physical Laboratory (CSIR–NPL))

- Innovation Manager Quantum Technologies (20+ hours / week) (Leap Berlin)

- Join VTT's opportunities in Microelectronics and Quantum Technology (VTT Technical Research Centre of Finland Ltd)

- Junior Quantum Experimentalist (Alice & Bob)

- Junior Quantum Measurement Engineer (QphoX)

- Junior Quantum Test Engineer (Barrington James)

- Junior permanent researcher in computational quantum many-body physics H/F (Alternative Energies and Atomic Energy Commission (CEA))

- Lead Researcher – Quantum Machine Learning (Terra Quantum)

- Machine Learning Ops Engineer (Quantum-Futures)

- Machine Learning Researcher (Qualcomm Technologies, Inc.)

- Manufacturing Operations Manager (Maybell Quantum Industries)

- Market Researcher (f/m/d) for Quantum User Community (Leibniz Supercomputing Centre (Leibniz-Rechenzentrum, LRZ))

- Marketing Assistant (Oxford Quantum Circuits)

- Marketing Professional (Multiverse Computing)

- Marketing Specialists (01 Communique)

- Materials R&D Engineer/Postdoc/Scientist // 材料研發工程師/博士後/科學家 (Hong Kong Quantum AI Lab Ltd)

- Mechanical Design Engineer (Nu Quantum)

- Mechanical Engineer (Quantum Circuits)

- Mechanical Engineers // 機械工程師 (Hong Kong Quantum AI Lab Ltd)

- NLP algorithm engineer/postdoc/scientist // NLP演算法工程師/博後/科學家 (Hong Kong Quantum AI Lab Ltd)

- Observability Software Engineer, Quantum AI (Google)

- PhD candidate in Algebraic Quantum Algorithms (Leiden University)

- Photonic Design Engineer (Barrington James)

- Photonic Designer (PsiQuantum)

- Photonic Engineer (Barrington James)

- Photonics Engineer (Balanced Detectors) (Xanadu Quantum Technologies Inc.)

- Photonics RnD Engineer (QuiX Quantum BV)

- Physicist (CSMC)

- Physicist, Mathematician, Information scientist or similar (f/m/x) (DLR-(German Aerospace Center)Deutsches Zentrum fr Luft- und Raumfahrt)

- Physicist, Meteorologist, Mathematician or similar (f/m/x) (DLR-(German Aerospace Center)Deutsches Zentrum fr Luft- und Raumfahrt)

- Principal Research Scientist - Quantum Algorithms (Alice & Bob)

- Principle Physicist - 1570 (Quantinuum)

- Process Chemist (Hays)

- Process Engineer for MonArk NSF Quantum Foundry (University of Arkansas, Fayetteville)

- Product Manager (Dublin) (Horizon Quantum Computing)

- Product Owner – Superconducting qubits (QuantrolOx Ltd)

- Product Support Engineer (PsiQuantum)

- Product Support Engineer - Quantum Chemistry (Quantinuum)

- Project Officer - Quantum Sensing - School of Physics and Astronomy - 103360 - Grade 6 (University of Birmingham)

- QA Specialists (01 Communique)

- Quant/Quantum Developer (PSRTEK)

- Quantum Algorithms Developer (Alice & Bob)

- Quantum Algorithms Developer (Alice & Bob)

- Quantum Algorithms Research Scientist, Quantum AI (Google)

- Quantum Application Engineer / Scientist (m/f/d) (TOPTICA Photonics)

- Quantum Application Engineer, Tokyo (Classiq Technologies)

- Quantum Applications Lead (Barrington James)

- Quantum Applications Software Developer (PsiQuantum)

- Quantum Applications and Partnerships Lead (Barrington James)

- Quantum Architect (Barrington James)

- Quantum Calibration Research Scientist - Goleta or Los Angeles (Google)

- Quantum Compiler Engineer - 1586 (Quantinuum)

- Quantum Computing Device Engineer, Spin Qubits (Interuniversity Microelectronics Centre (IMEC))

- Quantum Computing Engineer (Computer World Services)

- Quantum Computing Researcher (Shenzhen SpinQ Technology Co., Ltd.)

- Quantum Computing Researcher (Tech Advisory Panel)

- Quantum Cryogenic Group Lead (HRL Laboratories)

- Quantum Design Engineer (EnErgo recruitment)

- Quantum Development Engineer (Barrington James)

- Quantum Engineer (Barrington James)

- Quantum Engineer (Berkeley Square)

- Quantum Engineer (Cubiq Recruitment)

- Quantum Engineer (Legacy Talent Partners)

- Quantum Engineer (Maybell Quantum Industries)

- Quantum Engineer (2 openings) (QuEra computing)

- Quantum Error Correction Research Scientist, Quantum AI (Google)

- Quantum Experimentalist (Alice & Bob)

- Quantum High Performance Simulations Research Scientist, Quantum AI (Google)

- Quantum Information Science SME (Applied Research Associates, Inc)

- Quantum Instrumentation System Engineer (Alice & Bob)

- Quantum Integrated Circuit (IC) Designer (Rigetti)

- Quantum Key Distribution Engineer (Wave Photonics)

- Quantum Nanofabrication Scientist (Qubic Technologies)

- Quantum Optics Network (Fermi National Accelerator Laboratory (Fermilab))

- Quantum Optics and Photonics Engineer (Barrington James)

- Quantum Photonics and Laser Scientists (The Roy Chowdhurys LLC)

- Quantum Physicist (NEOEx Systems, Inc.)

- Quantum Research & Development Engineer (Quantware)

- Quantum Research Scientist, Chip Architecture Gates Integration (Google)

- Quantum Researcher / Engineering and Physical Sciences Researcher - Mid to Expert Level (Maryland) in Fort Meade, MD, USA (Energy Jobline)

- Quantum Scientist (Booz Allen Hamilton)

- Quantum Sensing Research Engineer (ADAPT Technology LLC.)

- Quantum Sensing of Quantum Devices - R&D Associate (Oak Ridge National Laboratory (ORNL))

- Quantum Software Developer - High Performance Computing (Xanadu Quantum Technologies Inc.)

- Quantum Software Engineer - Machine Learning - Hybrid (ARCA Resourcing)

- Quantum Software Engineer - Machine Learning - Hybrid (Energy Jobline)

- Quantum Software Researcher Position (ColibrITD)

- Quantum Supercomputing Researcher (Commonwealth Scientific and Industrial Research Organisation (CSIRO))

- Quantum information research engineer (Quandela)

- Quantum information scientist (Quandela)

- Quantum photonics consultant // Consultant fotonica en quantum (Berenschot)

- QuantumPro Computational Electromagnetics Engineer (Keysight Technologies)

- R&D Engineer - Quantum Sensing (Technology Innovation Institute)

- R&D Manager - Technology Development - 1589 (Quantinuum)

- R&D Optoelectronics, HI & Quantum Device Engineer (Experienced) Onsite (Sandia National Laboratories (SNL))

- R&D Software Engineer - Quantum Pro (Keysight Technologies)

- Readout and Reset Research Scientist, Quantum AI (Google)

- Research AMO Physicist, Quantum Sensing (SRI International)

- Research Associate / Senior Research Associate in Quantum Communications Systems (University of Bristol)

- Research Associate / Senior Research Associate in Quantum Computing Theory (University of Bristol)

- Research Associate Superconductivity: Dynamics and Technology § 28 Subsection 1 HmbHG (Universitat Hamburg)

- Research Associate in Quantum Reservoir Computing (Loughborough University)

- Research Associate in Scalable Quantum Computing (University of Strathclyde)

- Research Associate/Senior Research Associate (University of Colorado Boulder)

- Research Associate/Senior Research Associate in Quantum Communications Systems (Springer Nature Group)

- Research Fellow (New Paradigm for Quantum Resources in Strong-Kerr-resonator-based Microsystems) (National University of Singapore)

- Research Fellow in Quantum Optical Memories (University of Southampton)

- Research Grants and Finance Officer (PhaseCraft)

- Research Position in Horizon-MSCA Doctoral Networks program on Quantum Enhanced Optical Communication Network Security (VPIphotonics GmbH)

- Research Scientist (Leidos)

- Research Scientist – Quantum Photonics and Laser Technology (indus intellirisk and intellisense services)

- Research Scientist, Advanced Qubit Control, Quantum AI (Google)

- Research Scientist, Applied Quantum Algorithms (Quantinuum)

- Research Scientist, Automated Quantum Materials Discovery (Oak Ridge National Laboratory (ORNL))

- Research Scientist, Condensed Matter Application (Quantinuum)

- Research Scientist, Control Stack, AWS Center for Quantum Computing (Amazon)

- Research Scientist, Electromagnetic Modeling and Analytics, Quantum AI (Google)

- Research Scientist, MonArk Quantum Foundry (Montana State University)

- Research Scientist, Quantum Chemistry and Machine Learning, London (Isomorphic Labs)

- Research Scientist, Quantum Gates, Quantum AI (Google)

- Research Scientist, Quantum Readout and Reset Integration (Google)

- Research Scientist, Superconducting quantum circuits (VTT Technical Research Centre of Finland Ltd)

- Research Scientist, System Optimization and Stability, Quantum AI (Google)

- Research Scientist, Topological Quantum Matter (Quantinuum)

- Research Software Engineer - Swansea Academy of Advanced Computing (Swansea University)

- Research Software Engineer / Quantum Software Engineer for the JUNIQ cloud platform (GSI Helmholtz Center for Heavy Ion Research)

- Research Software Engineer / Quantum Software Engineer for the JUNIQ cloud platform (Jülich Supercomputing Centre / Forschungszentrum Jülich)

- Research Support Specialist III - The School of Applied & Engineering Physics (Cornell University)

- Researcher - Quantum Technologies // Ricercatore/ Ricercatrice - Quantum Technologies (Leonardo)

- Researchers - Quantum Computing // Ricercatori/Ricercatrici - Quantum Computing (Leonardo)

- SW Engineer (Quantum Machines)

- Scientific Project Senior Manager (National University of Singapore)

- Scientific Quantum Development Lead (Capgemini)

- Scientist Cryptography & Quantum application | Eindhoven (The Netherlands Organization of Applied Scientific Research (TNO) // Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek)

- Senior / Staff Quantum Experimentalist (Alice & Bob)

- Senior Embedded Software Engineer (Universal Quantum)

- Senior Embedded Systems Engineer (AOSense)

- Senior Engineer Systems (IonQ)

- Senior Fabrication Engineer (Barrington James)

- Senior Fabrication Quantum Engineer (Cubiq Recruitment)

- Senior Hardware Engineer, Integrated Circuit Design, Quantum AI (Google)

- Senior Information Technology Engineer (IonQ)

- Senior Manager / Manager, National Quantum Office (A*STAR (Agency for Science, Technology and Research, Singapore))

- Senior Mechanical Design Engineer (Nu Quantum)

- Senior Mechanical Engineer - Packaging (IonQ)

- Senior Optical Engineer (NKT Photonics)

- Senior Photonics Engineer (PsiQuantum)

- Senior Program Manager - R&D (C12 Quantum Electronics)

- Senior Quantum Algorithm Engineer (Nvidia)

- Senior Quantum Researcher (BosonQ Psi)

- Senior Quantum Simulation Engineer (Microsoft)

- Senior Research Fellow (Experimental Platforms for Quantum Processing with Neutral Atom arrays (National University of Singapore)

- Senior Research Scientist - Quantum Communications and Networking (Hybrid Eligible) (Oak Ridge National Laboratory (ORNL))

- Senior Research Scientist, Quantum Devices for Quantum Information Science (Oak Ridge National Laboratory (ORNL))

- Senior Researcher - Quantum Error Correction and Fault-Tolerance (Entropica Labs)

- Senior Scientist, Quantum Sensing (Q-CTRL)

- Senior Scientist, Quantum algorithms and software (VTT Technical Research Centre of Finland Ltd)

- Senior Scientist, Superconducting quantum circuits (VTT Technical Research Centre of Finland Ltd)

- Senior Software Engineer (IonQ)

- Senior Systems Engineer (IonQ)

- Software Development Engineer // 軟件開發工程師 (Hong Kong Quantum AI Lab Ltd)

- Software Engineer (Microsoft)

- Software Engineer (QubitSolve Inc.)

- Software Engineer (Universal Quantum)

- Software Engineer - Quantum Programming (HRL Laboratories)

- Software Engineer, Quantum Chemistry (Quantinuum)

- Software Engineer, Quantum Error Correction, Quantum AI (Google)

- Software Engineer, R&D Vehicle Applications (Quantum Signal AI)

- Solutions Team Leader (IBS Center for Quantum Nanoscience focuses (QNS))

- Spectroscopy of quantum spin liquids in frustrated materials // Spectroscopie des liquides de spin quantique dans des matériaux frustrés (University of Paris-Saclay)

- Speculative Application (m/f/d) (Quantistry GmbH)

- Sr Research Scientist, Materials Simulation (SandboxAQ)

- Staff Power Engineer (IonQ)

- Staff Quantum Computing Architect (IonQ)

- Staff Research Physicist- Diamond Quantum Devices and Microelectronics (Princeton Plasma Physics Laboratory (PPL))

- Staff Research Physicist- Diamond Quantum Devices and Microelectronics (Princeton University)

- Sustaining Test Systems Engineer, Quantum AI (Google)

- System Engineer (QilimanjaroQuantum Tech)

- TCAD software development engineer // TCAD軟件開發工程師 (Hong Kong Quantum AI Lab Ltd)

- Tech Staff - Quantum Optics Engineer (MIT Lincoln Laboratory)

- Technical International expert–Industrial strategic innovations in TAIWAN, ITRI (French Minister of Foreign Affairs // Ministre des Affaires trangres franais)

- Technical Prize Director, Quantum Applications (XPRIZE)

- Technical Prize Director, Quantum Applications (XPRIZE Foundation)

- Technical Program Manager III, Hardware Development, Quantum Research (Google)

- Technical Sales Engineer (SCALINQ)

- Towards practical quantum position-based cryptography // Vers une cryptographie quantique basée sur la position (University of Grenoble (UGA))

- VP of Photonics (Playground Global)

- Vice President Finance (Numerade)

- Visiting Senior Research Fellow (computational quantum complexity) (National University of Singapore)

- Web Backend Development (f/m/d) for Bavarian Quantum Portal (Leibniz Supercomputing Centre (Leibniz-Rechenzentrum, LRZ))

- Young Graduate Trainee in Navigation Disruptive Technologies (European Space Agency (ESA))

- Young Graduate Trainee in Optical and Quantum Communication (European Space Agency (ESA))

- [Researcher] [Cloud-native quantum secured developments - NETCOM-lab Group] [2024] (Fundación IMDEA Networks)

- electrical engineer // 電機工程師 (Hong Kong Quantum AI Lab Ltd)

- freelance electrical engineer / electronics development engineer // freiberufliche/r Elektroingenieur/in / Ingenieur/in Elektronikentwicklung (Universal Quantum)

Job Postings (8 faculty positions)

- Assistant Professor (University of Naples)

- Assistant Professor in Experimental Quantum Optics (University of Copenhagen)

- Assistant Professor in the area of Quantum Materials (University of Calgary)

- Assistant/Associate/Professor of Physics & Astronomy (University of Utah)

- DIAS Assistant Professors of Engineering (Syddansk Universitet)

- Postdoctoral Research Associates / Lecturer in Quantum Simulation (Workforce Australia for Individuals)

- Professor (Endowed) and Professor (Tenured) in Quantum Sovereignty and Resilience (QUASAR) (Nanyang Technological University (NTU))

- W3 professorship for 'Theoretical Quantum Technology' at the Department of Quantum Technology // W3-Professur für 'Theoretische Quantentechnologie' am Department für Quantentechnologie (University of Munster (WWU Munster))

Job Postings (35 postdocs)

- Call for proposals: Postdoc positions (Berlin Quantum)

- IQOQI Prize Postdoctoral Fellowship 2024 in Quantum Science (f/m/x) (Austrian Academy of Sciences // Österreichische Akademie der Wissenschaften)

- Materials Simulation - PostDoc (SandboxAQ)

- Post Doc in quantum optics and quantum information (University of Copenhagen)

- Post Doctoral Fellow, Quantum Computing (Thermo Fisher Scientific)

- Post-doctoral position in chip-integrated infrared colloidal quantum dot lasers CIDO // plaça de Post-doctoral position in chip-integrated infrared colloidal quantum dot lasers CIDO (The Institute of Photonic Sciences / Institut de Ciències Fotòniques (ICFO))

- Post-doctoral position in chip-integrated infrared colloidal quantum dot lasers (The Institute of Photonic Sciences / Institut de Ciències Fotòniques (ICFO))

- Post-doctoral position in science and technology of moire quantum matter (The Institute of Photonic Sciences / Institut de Ciències Fotòniques (ICFO))

- Post-doctorate position: Hydrogen deceleration for its first observation of the Gravitational Quantum States. H/F (National Center for Scientific Research (Le Centre national de la recherche scientifique; CNRS))

- Postdoc in Experimental Quantum Optics – DTU Electro (Technical University of Denmark (DTU))

- Postdoc in Long-Distance Quantum Communications DTU Physics (Technical University of Denmark (DTU))

- Postdoc in laser- and synchrotron-based studies of quantum materials (Aarhus University (AU))

- Postdoc position on comparison between quantum advantage strategies, NWO Vidi (University of Twente)

- Postdoctoral Appointee - Quantum Optics (Argonne National Laboratory)

- Postdoctoral Appointee Optoelectronics, HI & Quantum Device Onsite (Sandia National Laboratories (SNL))

- Postdoctoral Employee Quantum Nanoelectronics Physics (University of California, Berkeley)

- Postdoctoral Fellow Quantum Computing (Lawrence Berkeley National Laboratory - Berkeley Lab (LBNL))

- Postdoctoral Research Associate - Quantum Networking (Hybrid Eligible) (Oak Ridge National Laboratory (ORNL))

- Postdoctoral Research Associate in Quantum Light and Matter (Durham University)

- Postdoctoral Research Fellow (Theory of complex quantum systems and information) Tutkijatohtori (Teoreettinen tiiviin aineen fysiikka) (Tampere University)

- Postdoctoral Researcher (University of Trieste (Università degli Studi di Trieste))

- Postdoctoral Researcher in Quantum Scientific Computing (Florida A&M University-Florida State University College of Engineering (FAMU-FSU COE))

- Postdoctoral Researcher in Theoretical Quantum Photonics (University of Eastern Finland (UEF) // Itä-Suomen yliopisto)

- Postdoctoral Researcher or Senior Postdoctoral Researcher (Quantum Information Science and Theoretical Condensed Matter Physics) (Louisiana State University)

- Postdoctoral Researchers in Quantum Nanomechanics (Aalto University)

- Postdoctoral Researchers in Quantum Nanomechanics (Springer Nature Group)

- Postdoctoral Researchers in quantum technologies (University of Jyväskylä)

- Postdoctoral Scholars in Quantum chemistry on quantum computers/Quantum machine learning, Faculty of Science (University of Calgary)

- Postdoctoral positions in Quantum Nanophotonics (Chalmers University of Technology)

- Postdoctoral researcher in nonlinear and quantum photonics of 2D materials (Missouri University of Science and Technology)

- Quantum Opto-mechanics and Sensing Post Doctoral Associate (University of Pittsburgh)

- Quantum Postdoctoral Researcher / Research Scientist (Okinawa Institute of Science and Technology Graduate University)

- Quantum Postdoctural Researcher / Research Scientist (Okinawa Institute of Science and Technology)

- Research Associate (Postdoc) in Quantum Software Engineering (University of Luxembourg)

- place of Post-doctoral position in science and technology of moire quantum matter CIDO // plaça de Post-doctoral position in science and technology of moire quantum matter CIDO (The Institute of Photonic Sciences / Institut de Ciències Fotòniques (ICFO))

Job Postings (45 internships)

- 2 PhD-positions for boundaries of a quantum advantage (University of Twente)

- Advanced Sensing & Devices Summer Intern (Nokia)

- Chief of Staff MBA Internship (SandboxAQ)

- Digital Innovation Analyst, Intern (EDF Innovation Lab)

- Doctoral Researcher in Quantum Computing (Aalto University)

- Experimental Physics Intern (Immediate or later) (Atomionics)

- Firmware Engineering Intern (May 2024 or later) (Atomionics)

- Founders Associate (Intern) (Quantum Diamond Technologies Inc (QDTI))

- Immediate PhD openings in quantum materials engineering (University of Nebraska)

- Intern - Quantum Information Science department, R&D Grad Summer (Sandia National Laboratories (SNL))

- Intern - Quantum Performance Laboratory (QPL), R&D Grad Summer (Sandia National Laboratories (SNL))

- Master's Thesis (Quantum Diamonds GmbH)

- Optical Engineering Internship (Quantinuum)

- PhD Position in Laser Enhanced Fabrication of Quantum Devices (NNF Quantum Computing Programme (NQCP))

- PhD Position in Quantum Foundry Copenhagen (Novo Nordisk Foundation)

- PhD Position in Quantum Foundry Copenhagen (Quantum Foundry Copenhagen)

- PhD fellowship in Quantum Chemistry on Quantum Computers (University of Copenhagen)

- PhD fellowships in machine learning for quantum computing (University of Copenhagen)

- PhD in 'From fundamental electronic structure theory to quantum devices' (Tyndall National Institute)

- PhD position for Ultra-low loss silicon nitride waveguides for quantum delay lines. (University of Twente)

- PhD position in Quantum Information Theory (University of Luxembourg)

- PhD position in the field of carbon-based quantum spin devices (Empa)

- PhD position: Scalable cold atom based quantum computer using photonics (Eindhoven University of Technology)

- PhD positions in Quantum Nanophotonics (Chalmers University of Technology)

- PhD positions in theoretical quantum chemistry/physics (2.0 FTE) (University of Groningen)

- PhD student Quantum light sources (University of Twente)

- PhD-Position - Development of scalable superconducting quantum systems (Jülich Supercomputing Centre / Forschungszentrum Jülich)

- PhD: SI Interposer Platform for Quantum and Bio-Medical Applications (Université de Sherbrooke)

- Research Intern (Fujitsu)

- Research Intern - Quantum Information and Computation (Microsoft)

- Research Science Intern (Quantum) (IBM)

- SW Developer- Qiskit Runtime- Summer internship 2024- Research Lab (IBM)

- SW Developer- Qiskit Runtime- Summer internship 2024- Research Lab (IBM)

- Seasonal Trainee, Research (multiple openings) (Nokia)

- Software Engineering (Python) Intern (May 2024 or later) (Atomionics)

- Software Engineering Internship (Keysight Technologies)

- Student Assistant - Quantum Computing / Quantum Circuit Compilation (Fraunhofer USA, Inc.)

- Student Assistant Quantum Communication (Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut (HHI) - Fraunhofer HHI - Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut)

- Student Assistant/Master Thesis in the Field of Quantum Technology 1 (Fraunhofer Institute for Applied Solid State Physics (IAF) - Fraunhofer IAF - Fraunhofer-Institut für Angewandte Festkörperphysik)

- Student physics, electrical engineering or similar (f/m/x) (DLR-(German Aerospace Center)Deutsches Zentrum fr Luft- und Raumfahrt)

- Summer internship on optimal control for bosonic quantum computation (Chalmers University of Technology)

- Technical Quantum Community Intern (Classiq Technologies)

- Two PhD fellowships in Theoretical Quantum Optics and Quantum Information (University of Copenhagen)

- Werkstudent (m/w/d) im Bereich Human Resources, People and Culture (Kipu Quantum)

- Working Student (m/w/d) in Human Resources, People and Culture (Kipu Quantum)

Employer Listing

Current listing of employer websites that list jobs specific to the employer

----

New subscriptions and archived messages for the Quantum Computing Institute external mailman list are available at

https://elist.ornl.gov/mailman/listinfo/qci-external

_____

qci-external mailing list
qci-external@elist.ornl.gov
https://elist.ornl.gov/mailman/listinfo/qci-external
To unsubscribe, send a blank email to qci-external-unsubscribe@elist.ornl.gov