

United States Jobs Expertini®

Research Scientist, Quantum Gates, AWS Center for Quantum Computing

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Company: Amazon Development Center U.S., Inc.

Location: Pasadena

Category: computer-and-mathematical

AWS Utility Computing (UC) provides product innovations — from foundational services such as Amazon’s Simple Storage Service (S3) and Amazon Elastic Compute Cloud (EC2), to consistently released new product innovations that continue to set AWS’s services and features apart in the industry. As a member of the UC organization, you’ll support the development and management of Compute, Database, Storage, Internet of Things (IoT), Platform, and Productivity Apps services in AWS. Within AWS UC, Amazon Dedicated Cloud (ADC) roles engage with AWS customers who require specialized security solutions for their cloud services.

The AWS Center for Quantum Computing is a multi-disciplinary team of scientists, engineers, and technicians, all working to innovate in quantum computing for the benefit of our customers.

You will be joining a team focused on improving the performance of quantum processors on the path towards delivering a fault-tolerant quantum computer. We are looking to hire a Research Scientist focused on calibrating, benchmarking, and improving quantum gates on an integrated processor. In this role, you will (1) collaborate with device theorists to understand the fundamental limits of gate performance; (2) work with system engineers to set component level requirements as we scale processor complexity; (3) develop novel gate optimization routines; (4) contribute to control stack development; (5) enable novel quantum error correction demonstrations. You are expected to develop & lead high-impact research

projects that intersect with our engineering roadmap. We are looking for candidates with strong engineering principles and resourcefulness. Organization and communication skills are essential.

Inclusive Team Culture

Here at AWS, we embrace our differences. We are committed to furthering our culture of inclusion. We have ten employee-led affinity groups, reaching 40,000 employees in over 190 chapters globally. We have innovative benefit offerings, and host annual and ongoing learning experiences, including our Conversations on Race and Ethnicity (CORE) and AmazeCon (gender diversity) conferences.

Work/Life Balance

Our team puts a high value on work-life balance. It isn't about how many hours you spend at home or at work; it's about the flow you establish that brings energy to both parts of your life. We believe striking the right balance between your personal and professional life is critical to life-long happiness and fulfillment. We offer flexibility in working hours and encourage you to find your own balance between your work and personal lives.

Mentorship & Career Growth

Our team is dedicated to supporting new members. We have a broad mix of experience levels and tenures, and we're building an environment that celebrates knowledge sharing and mentorship. Our senior members enjoy one-on-one mentoring and thorough, but kind, code reviews. We care about your career growth and strive to assign projects based on what will help each team member develop into a better-rounded scientist/engineer and enable them to take on more complex tasks in the future.

A day in the life

Diverse Experiences

AWS values diverse experiences. Even if you do not meet all of the qualifications and skills listed in the job description, we encourage candidates to apply. If your career is just starting, hasn't followed a traditional path, or includes alternative experiences, don't let it stop you from applying.

Why AWS?

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform. We pioneered cloud computing and never stopped innovating — that's why customers from the most successful startups to Global 500 companies trust our robust suite of products and services to power their businesses.

Inclusive Team Culture

Here at AWS, it's in our nature to learn and be curious. Our employee-led affinity groups foster a culture of inclusion that empower us to be proud of our differences. Ongoing events and learning experiences, including our Conversations on Race and Ethnicity (CORE) and AmazeCon (gender diversity) conferences, inspire us to never stop embracing our uniqueness.

Mentorship & Career Growth

We're continuously raising our performance bar as we strive to become Earth's Best Employer. That's why you'll find endless knowledge-sharing, mentorship and other career-advancing resources here to help you develop into a better-rounded professional.

Work/Life Balance

We value work-life harmony. Achieving success at work should never come at the expense of sacrifices at home, which is why we strive for flexibility as part of our working culture. When we feel supported in the workplace and at home, there's nothing we can't achieve in the cloud.

Hybrid Work

We value innovation and recognize this sometimes requires uninterrupted time to focus on a build. We also value in-person collaboration and time spent face-to-face. Our team affords employees options to work in the office every day or in a flexible, hybrid work model near one of our U.S. Amazon offices.

We are open to hiring candidates to work out of one of the following locations:

Pasadena, CA, USA

BASIC QUALIFICATIONS

- PhD in physics, applied physics, electrical engineering, or an equivalent degree in a similar field
- In-the-lab experience calibrating and benchmarking multi-qubit devices
- Proficient in a scientific programming environment
- Experience successfully delivering on projects as part of a cross-team collaboration

PREFERRED QUALIFICATIONS

- Direct experimental experience with superconducting qubits, or cavity/circuit QED
- Expertise in common quantum gate benchmarking and tomographic protocols (e.g. randomized benchmarking)
- An ability to simulate simple quantum systems
- Experience with electromagnetic simulations of superconducting circuits
- Experience with microwave engineering

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