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### Senior Quantum Software Engineer

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Microsoft Development Center  
Copenhagen, Capital Region, Denmark

Up to 50% work from home

Microsoft Quantum is dedicated to solving some of the world's intractable problems and forever altering our economic, industrial, academic, and societal landscape. In just hours or days, a quantum computer will solve some complex problems that would otherwise ...

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## Senior Quantum Software Engineer

Microsoft Development Center Copenhagen, Capital Region, Denmark

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Date posted **Apr 02, 2024**

Job number **1704170**

Work site **Up to 50% work from home**

Travel **0-25 %**

Role type **Individual Contributor**

Profession **Quantum Computing**

Discipline **Quantum Software Engineering**

Employment type **Full-Time**

## Overview

Microsoft Quantum is dedicated to solving some of the world's intractable problems and forever altering our economic, industrial, academic, and societal landscape. In just hours or days, a quantum computer will solve some complex problems that would otherwise take today's computers billions of years! This has massive implications for research in sustainability, energy, environmental systems, smart materials, and more. Microsoft is working to build a scalable quantum machine, to empower people and organizations with this incredible technology stack. For more information about our team, visit <https://quantum.microsoft.com/>.

Are you passionate about building innovative systems at the intersection of HPC (high-performance computing), AI and Quantum? Do you want to be part of the next revolution in computing? Microsoft is looking for you! Join our team as we create a new "supercomputing as a service" offering focused on Chemistry and Material Science workloads.

## Qualifications

- PhD's degree in a technical field such as computational chemistry
- Solid research experience in computational chemistry required
- A solid foundation in electronic structures, quantum chemistry, or chemical reactions.
- Software development experience in quantum chemistry, proficient in at least one language among FORTRAN, C++, Python.

Ability to meet Microsoft, customer and/or government security screening requirements are required for this role. These requirements include, but are not limited to the following specialized security screenings:

- Microsoft Cloud Background Check: This position will be required to pass the Microsoft Cloud background check upon hire/transfer and every two years thereafter.

## Responsibilities

This role, as part of the Azure Quantum Elements team, will create new Azure services that are designed to cater for demanding HPC workloads (think classical supercomputer scale). These services will blend traditional HPC solutions with AI & Quantum accelerators (both third party and first party hardware). The ideal candidate for this position is agile and able to adapt to changing conditions and priorities as we learn and grow. Such a candidate has excellent communication and cross-team collaboration skills.

- Develop quantum chemistry solutions combining Quantum, HPC and AI technology
  - Develop workflows to solve computational chemistry problem.
  - Work with customers to understand their problems in the space of computational chemistry
- Prepare the detailed software specifications and test plans
- Modify existing programs to new standards and conduct unit testing of developed programs
- Create migration packages for system testing, user testing, and implementation
- Provide quality assurance reviews
- Perform post-implementation validation of software and resolve any bugs found during testing

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Benefits/perks listed below may vary depending on the nature of your employment with Microsoft and the country where you work.


 Industry leading healthcare

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 Discounts on products and services

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 Maternity and paternity leave

 Generous time away

 Giving programs

 Opportunities to network and connect

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Microsoft is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to age, ancestry, citizenship, color, family or medical care leave, gender identity or expression, genetic information, immigration status, marital status, medical condition, national origin, physical or mental disability, political affiliation, protected veteran or military status, race, ethnicity, religion, sex (including pregnancy), sexual orientation, or any other characteristic protected by applicable local laws, regulations and ordinances. If you need assistance and/or a reasonable accommodation due to a disability during the application process, read more about [requesting accommodations](#).

Apply

