

## Postdoctoral

Ecole/Institution/Société:

**Centrum Wiskunde & Informatica (CWI), Netherlands / Amsterdam**

Discipline:

**Algorithms, Computational Engineering**

Type d'emploi::

**Full-time**

Date de publication:

**2022-04-12**

Personne à contacter:

**If you wish to apply for this position, please specify that you saw it on AKATECH.tech**

### **Postdoctoral, on Quantum Algorithms and Theoretical Computer Science**

#### **Job description**

QuSoft and CWI invite you to apply for a PhD in quantum algorithms and theoretical computer science. The ideal candidate has a background in the theory of quantum computing with a strong foundation in theoretical computer science and/or mathematics.

This position is supervised by Stacey Jeffery (CWI). You will be employed by CWI, in the Algorithms & Complexity group, and embedded in QuSoft, a vibrant and multidisciplinary research institute hosted by CWI.

#### **Requirements**

Candidates are required to have a Master's degree in theoretical computer science, mathematics, or a related discipline, and a specialization in quantum computing or related field. Preferable qualifications for candidates include proven research talent, an excellent command of English, and good academic writing and presentation skills.

#### **Terms and conditions**

The terms of employment are in accordance with the Dutch Collective Labour Agreement for Research Centres ("CAO-onderzoeksinstituten"). The initial labour agreement will be for a period of 18 months. After a positive evaluation, the agreement will be extended by 30 months.

The gross monthly salary, for a PhD student on a full time basis, is € 2,441 during the first year and increases to €3,128 over the four year period. Employees are also entitled to a holiday allowance of 8% of the gross annual salary and a year-end bonus of 8.33%. CWI offers attractive working conditions, including flexible scheduling and help with housing for expat employees.

**Please visit our websites for more information about our terms of employment:**

- <https://www.cwi.nl/jobs/terms-of-employment> and
- <https://www.nwo-i.nl/en/working-at-nwo-i/jobsatnwoi/>

#### **Information and application**

All applications should include a detailed CV, including the names and email addresses of 2-3 academic references; a 1-2 page motivation letter highlighting your background and research interests; a list of your MSc courses and grades; and an academic writing sample such as a research paper or copy of your Master's thesis. Applications received by March 20 will receive full consideration.

For residents outside the EER-area, a Toefl English language test might be required.

For more information about the vacancy, please contact Stacey Jeffery, email [jeffery@cw.nl](mailto:jeffery@cw.nl).

For more information about CWI, please visit [www.cwi.nl](http://www.cwi.nl) or watch our video about working at CWI

## **Diversity code**

CWI encourages a diverse workforce: we endeavour to develop talent and creativity by bringing people from different backgrounds and cultures together. We recruit and select based on capabilities and talent. We strongly encourage everyone with the appropriate qualifications to apply for the vacancy, regardless of age, gender, origin, sexual orientation or physical abilities.

## **About CWI**

Centrum Wiskunde & Informatica (CWI) is the Dutch national research institute for mathematics and computer science and is an institute of the Netherlands Organisation for Scientific Research (NWO). The mission of CWI is to conduct pioneering research in mathematics and computer science, generating new knowledge in these fields and conveying it to trade, industry, and society at large.

CWI is an internationally oriented institute, with 160 scientists from approximately 30 countries. The facilities are first-rate and include excellent IT support, career planning, training, and courses. CWI is located at Amsterdam Science Park which is home to one of the largest concentrations of beta science in Europe. A melting pot of innovation.

Companies looking to collaborate can work together with brilliant students, scientists and fellow entrepreneurs. Collectively they develop revolutionary solutions for today's issues and tomorrow's challenges.

## **About Research group**

Our research group designs software for the computing technology of the future, especially quantum computing. Based on the laws of quantum mechanics, which tell us that systems and particles can be in multiple states at once, quantum computing is radically different from computing as we know it. Our quantum software requires fundamentally different techniques and approaches based on superposition, interference and entanglement. Ultimately, our research will result in better, faster and more reliable computer systems for society. Our research group is involved in QuSoft, the new Dutch research centre for quantum software.

To find more information about the group, please visit the group page and watch their video.

<https://www.cwi.nl/research/groups/algorithms-and-complexity>

## **Job details**

**Title:** PhD Student, on Quantum Algorithms and Theoretical Computer Science

**Employer:** Centrum Wiskunde & Informatica (CWI)

**Location:** Science Park 123 Amsterdam, Netherlands

**Job type:** PhD

**Field:** Algorithms, Computational Sciences, Programming Languages, Quantum Computing, Theory of Computation

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