

## **Netherlands:PhD student on the subject of connections between theoretical computer science and mathematics**

This is a research position, supervised by dr. Jop Briët. Broadly, the project involves establishing and exploiting connections between theoretical computer science (TCS), discrete mathematics and high-dimensional geometry. Possible topics from TCS include (but are not limited to) quantum information theory, the theory of error-correcting codes, and approximation algorithms. Possible topics from mathematics include (but are not limited to) the geometry of tensor products, high-dimensional probability, analysis over the Boolean cube, additive combinatorics or the polynomial method.

The successful candidate will join CWI's Algorithms & Complexity group (led by Prof. Harry Buhrman) and will automatically also be part of the Networks Center ( <http://www.thenetworkcenter.nl/> ) and QuSoft ( <http://www.qusoft.org> ).

### Requirements:

Candidates are required to have a Master's degree in mathematics and/or computer science, and be interested in at least one of the topics from both of the areas listed in the job description. 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-onderzoeksinstellingen"). 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 €2,211 during the first year and increases to €2,834 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 website for more information about our terms of employment:

[www.cwi.nl/terms-of-employment](http://www.cwi.nl/terms-of-employment)

Application & Information:

Applications can be sent before 31 January 2017 to [apply@cwi.nl](mailto:apply@cwi.nl). All applications should include a detailed resume, motivation letter, list of your MSc courses and grades, copy of your Master's thesis and preferably a list of publications.

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

For more information about the vacancy, please contact Jop Briët, email [j.briet@cwi.nl](mailto:j.briet@cwi.nl), telephone +31 (0)20 5924236.

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

### **About Centrum Wiskunde & Informatica**

Centrum Wiskunde & Informatica (CWI) is the Dutch national research institute for mathematics and computer science and linked to 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 27 countries. The facilities are first-rate and include excellent IT support, career planning, training, and courses.

CWI is located at Science Park Amsterdam that is presently developing into a major location of research in the natural sciences in The Netherlands, housing the sciences of the University of Amsterdam and of the Vrije Universiteit as well as several other national research institutes next to CWI.

### **Research group**

Please find more information about our research group on [our webpage](#) .

**Tentative Submission Deadline : 31 January 2017**

[Further Information](#)