

Postdoc Quantum Error Correction and Quantum Graph Theory

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Company: Eindhoven University of Technology (TU/e)

Location: Eindhoven

Category: other-general

Research on quantum technologies is set to revolutionize several aspects of our life, including how we process information. In the Department of Mathematics and Computer Science at Eindhoven University of Technology (TU/e), the Netherlands, there is a vacancy for a 2 year postdoctoral position on the topics of quantum error correction, quantum graph theory, and quantum information theory. The vacancy will remain open until the position is filled.

This postdoc position is jointly supervised by Alberto Ravagnani () and Aida Abiad () and it is funded by the Eindhoven Hendrik Casimir Institute for quantum technologies. The position is hosted by the Mathematical Communication Theory group ().

You will have the opportunity to contribute to and shape research directions at the crossroad of quantum information theory, quantum graph theory, and quantum error correction. You will bridge the Algebraic Combinatorics and the Mathematical Communication Theory groups, establishing and leading new interdisciplinary collaborations. You will bridge the Mathematical Communication Theory group and the Eindhoven Hendrik Casimir Institute.

Specifications

max. 38 hours per week

Eindhoven

Eindhoven University of Technology (TU/e)

Requirements

You have a PhD in Mathematics or related disciplines.

Familiarity with coding theory and graph theory. Ideally, familiarity with quantum information theory and/or quantum graph theory.

Ability to conduct high quality academic research, reflected in demonstratable outputs.

A team player who enjoys coaching Master's students and working in a dynamic, interdisciplinary team.

Ability to take the lead and take initiative in research collaborations.

A proven ability to manage complex projects to completion on schedule.

Excellent (written and verbal) proficiency in English, good communication skills.

Conditions of employment

A meaningful job in a dynamic and ambitious university, in an interdisciplinary setting and within an international network. You will work on a green campus within walking distance from the central train station. In addition, we offer you:

Full-time employment for 2 years.

Salary in accordance with the Collective Labour Agreement for Dutch Universities, scale 10 (min. €3,877 max. €5,090).

A year-end bonus of 8.3% and annual vacation pay of 8%.

High-quality training programs on general skills, didactics and topics related to research and valorization.

An excellent technical infrastructure, on-campus children's day care and sports facilities.

Partially paid parental leave and an allowance for commuting, working from home and internet costs.

A that helps you to build a stronger and broader academic and personal network, and offers tailored support, training and workshops.

A is available for international candidates, as are a tax compensation scheme (the 30%

facility) and a compensation for moving expenses.

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