

The Faculty of Science and the Leiden Institute of Physics invite applications for

**Tenure track faculty position in theoretical physics,
focus area: quantum information science. (1.0 fte)**

The [Leiden Institute of Physics](#) is searching a new faculty member (tenure track assistant professor) in the area of quantum information science, to be appointed within the [Institute Lorentz for theoretical physics](#). For this position we are particularly interested in candidates who can contribute to our research initiative in quantum algorithms and their applications to problems in physics, chemistry, and computer science (see aqa.universiteitleiden.nl) Appointments at associate or full professor level may be considered for outstanding candidates.

Key responsibilities

- Establishing an independent, internationally recognized research line in quantum information science;
- Acquisition of external funds through research grants;
- Teaching at the undergraduate and graduate level in physics;
- Supervision of BSc and MSc students in their thesis work;
- Contribution to the inclusive atmosphere, management and organization of the institute.

Selection criteria

- Ph.D. degree in physics and research experience at the postdoctoral level;
- Demonstrated strong interest in an academic career through activities and publication record;
- Excellent communications skills in English, both written and verbal.
- Strong commitment to teaching and willingness to further develop teaching skills.

Information Tenure Track

We offer a tenure track appointment as assistant professor that upon successful performance will lead to promotion to a tenured position as associate professor and upon continued growth to promotion to full professor. We offer a clear and inviting career path, support in the development of your personal and professional skills, and an attractive start-up package. A special mentoring program is offered with fellow Tenure Trackers in a peer group as well as with senior staff members in the department. We actively support learning Dutch through departmentally funded courses.

Quantum Information at the Leiden Institute of Physics

Locally the position will be embedded in the [Applied Quantum Algorithms](#) group, that involves researchers from the Leiden Institutes of Physics and Computer Science. Nationally we are a partner of the [Quantum Software Consortium](#), a multidisciplinary group of researchers from the universities of Amsterdam, Leiden and Delft, with backgrounds in computer science, mathematics, engineering and physics. We share students and postdocs with [QuTech](#) in Delft, where we can try out ideas on quantum hardware. The Lorentz Institute is affiliated with the [Lorentz Center](#), which hosts workshops on topics of current interest and helps create a stimulating research environment.

Research at our faculty

The Faculty of Science is a world-class faculty where staff and students work together in a dynamic international environment. It is a faculty where personal and academic development are top priorities. We are committed to expand fundamental knowledge by curiosity and to look beyond the borders of their own discipline; their aim is to benefit science, and to make a contribution to addressing the major societal challenges of the future.

The research carried out at the Faculty of Science is very diverse, ranging from mathematics, information science, astronomy, physics, chemistry and bio-pharmaceutical sciences to biology and environmental sciences. The research activities are organised in eight institutes. These institutes offer eight bachelor's and twelve master's programmes. The faculty has grown strongly in recent years and now has more than 2,200 staff and almost 4,200 students. We are located at the heart of Leiden's Bio Science Park, one of Europe's biggest science parks, where university and business life come together. For more information, see www.universiteitleiden.nl/en/science and workingat.leiden.edu.

Terms and conditions

We offer a full-time, 6-year term position, with the possibility of a tenure position based on performance. Salary range from € 3637 to € 4978 gross per month (pay scale 11 in accordance with the Collective Labour Agreement for Dutch Universities). In exceptional cases, candidates at the associate or full professor level will be taken into consideration.

Leiden University offers an attractive benefits package with additional holiday (8%) and end-of-year bonuses (8.3%), training and career development and sabbatical leave. Our individual choices model gives you some freedom to assemble your own set of terms and conditions. Candidates from outside the Netherlands may be eligible for a substantial tax break.

Diversity

Leiden University is strongly committed to diversity within its community and especially welcomes applications from members of underrepresented groups. Gender balance is an explicit aim of our institute. We strongly encourage women to apply and will give preference to female candidates in case of equal qualifications.

Information

If you have any questions about the procedure, please contact Prof. Jan Aarts (director@physics.leidenuniv.nl; telephone: 071- 527 5479). Additional information on research and education at the Leiden Institute of physics can be found at www.universiteitleiden.nl/en/science/physics.

Applications

We encourage candidates to apply before March 15, 2020 and applications will be reviewed through 2020 until the position is filled. Please contact the chair of the search committee, Prof. Carlo Beenakker beenakker@ilorentz.org for information and to apply. We would need a cover letter, a CV with a link to your Google Scholar page, a research plan, and names of three persons who can be contacted for a reference.