

## Virginia Tech Department of Mathematics

### Faculty Position in Theoretical Quantum Information Science

As part of plans to build on existing strengths, expand in the field of quantum information science, and align with state-wide investments in data sciences and cybersecurity, the College of Science at Virginia Tech (<http://www.science.vt.edu/>) invites applications for a tenure-track faculty position in Theoretical Quantum Information Science at any rank (assistant professor, associate professor, or full professor).

Areas of interest include, but are not limited to, quantum information theory, quantum error correction, quantum algorithms, quantum control, quantum sensing, the interface of quantum information and many-body theory, holography in quantum information, quantum networks, theory of entanglement, adiabatic quantum computation, and topological quantum computation.

The successful candidate will be expected to establish a vigorous and externally well-funded research program, to teach effectively at the undergraduate and graduate levels, and to actively participate in department, college, and university governance. The successful candidate will become a faculty member either in the Mathematics or Physics department. Joint appointments between the two departments will also be considered, as appropriate.

Diversity, equity, and inclusion are core values at Virginia Tech and the College of Science. Our excellence can only be fully realized by faculty, students, and staff who share our commitment to these values. The Departments of Mathematics and Physics seek candidates whose research, teaching or service has prepared them to contribute to our commitment to diversity and inclusion in higher education.

Applicants must hold a Ph.D. in math, physics or a closely related field by appointment start date. Postdoctoral experience is preferred. The position requires occasional travel to attend conferences and meetings.

Questions regarding the position may be directed to [qit-search-g@vt.edu](mailto:qit-search-g@vt.edu).

Candidates should apply at <http://jobs.vt.edu/> (#511485).

The application package must include

- (i) A cover letter
- (ii) Curriculum Vitae with publication list,
- (iii) A statement of ongoing and planned research,
- (iv) A brief description of teaching philosophy, and
- (v) A statement of any previous activities or future plans aimed at expanding diversity and/or mentoring of underrepresented groups, and how the applicant will further Virginia Tech's commitment to build a culturally diverse educational environment (<http://www.inclusive.vt.edu/>).

Applicants should arrange for three letters of recommendation to be directly emailed to [qit-search-g@vt.edu](mailto:qit-search-g@vt.edu).

Review of applications will begin on November 18, 2019, and will continue until the position is filled; to ensure full consideration, complete application packages and reference letters should be received by November 18, 2019. As part of the hiring process, the successful applicant must pass a

criminal background check. The expected position starting date is August 10, 2020.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or veteran status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees or applicants, or on any other basis protected by law.

For inquiries regarding non-discrimination policies, contact the Office for Equity and Accessibility at 540-231- 2010 or Virginia Tech, North End Center, Suite 2300 (0318), 300 Turner St. NW, Blacksburg, VA 24061.

Individuals with disabilities desiring accommodations in the application process should please notify Ms. Jacqueline Woodyard, Department of Physics, (540) 231-7566 or call TTY 1-800-828-1120 prior to the application deadline.