

GRANT- PAID JOB OPPORTUNITY

POSTING NUMBER: GPD-17022

POSTING DATE: May 24, 2017

CLOSING DATE: June 23, 2017

Research Associate (Temporary) Department of Mathematics and Statistics

POSITION SUMMARY:

Dalhousie University invites applicants for a temporary Research Associate position in mathematics from outstanding candidates with a strong background in categorical quantum mechanics and mathematical logic.

The successful applicant will work on a project entitled "Trusted Quantum Software via a Formally Verified Functional Quantum Programming Language". The project involves the design, semantics, and meta-theory of a functional programming language for quantum computing, and using the language to investigate questions in quantum information theory.

Qualifications:

- Candidates must hold a Ph.D. in mathematics or a closely related area.
- Research experience in category theory, formal logic, and quantum computing is a prerequisite for this position.
- Experience in categorical quantum mechanics, topological semantics, and quantum contextuality is also required.

Salary Range: \$36,000-\$50,000 per annum, commensurate with experience, plus benefits. This is a 1 year term position which may be extended for one additional year.

Start Date: August 1, 2017

Deadline for application: June 23, 2017

Interested parties should forward a cover letter, current CV and contact information of 2-3 references to the Chair of the Department of Mathematics and Statistics at chair@mathstat.dal.ca.

All qualified candidates are encouraged to apply, however, Canadians and permanent residents will be given priority. Only candidates selected for an interview will be contacted.

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from Aboriginal people, persons with a disability, racially visible persons, women, persons of minority sexual orientations and gender identities, and all candidates who would contribute to the diversity of our community. For more information, please visit www.dal.ca/respect.