Research Positions in Computational Discrete Mathematics

The MathCheck group at the University of Waterloo and the Algorithms & Mathematics group at the University of Windsor are seeking applicants for research positions at all levels—from undergraduate to postdoctoral.

The successful applicants will work on a wide variety of problems in computational discrete mathematics—from areas as diverse as combinatorial design theory, graph theory, number theory, cryptography, geometry, as well as experimental and recreational mathematics. Candidates will combine techniques from computational algebra with automated reasoning search algorithms in order to search for (or disprove the existence of) various interesting mathematical structures. For example, the Hadamard matrix highlighted above was discovered by such techniques.

Qualifications and selection criteria

Successful applicants should possess the following traits:

- Excellent English communication and writing skills.
- Strong affinity towards and interest in mathematics, particularly discrete mathematics.
- Experience with at least one programming language.
- Ability to focus deeply on a problem.

Successful applicants will be funded according to the level at which they are hired and the start date is negotiable. Candidates from diverse backgrounds are encouraged to apply—due to the wide variety of applications of this research a non-standard background may be an asset.

Applications should be sent to Curtis Bright <cbright@uwindsor.ca> using the subject `"ALMA Application"` and include a statement of interest (with the desired hiring level) and a curriculum vitae (if available) or résumé.