

Postdoctoral Fellowships in Analytics and High Performance Computing (HPC)

Applications are invited for Postdoctoral Fellowships (renewable) in Analytics and High Performance Computing (HPC) under the supervision of Dr. Andrew Rau-Chaplin in the Risk Analytics Lab, Faculty of Computer Science at Dalhousie University.

Candidates with a strong HPC background and an interest in one or more of the following areas are encouraged to apply:

- Catastrophe Modeling and Risk,
- Mathematical Modeling, Simulation, and Optimization,
- Text Mining and Natural Language Processing

The Risk Analytics Lab (www.risk-analytics-lab.ca) is housed in the Faculty of Computer Science at Dalhousie and is focussed on research questions at the intersection of analytics, risk management, and high performance computing. Our research projects address challenges in catastrophe modeling, portfolio risk management, and dynamic financial analysis, by drawing on a diverse set of technologies including stochastic simulation, high performance computing, optimization, text mining, and data warehousing. The lab has strong links to industry and frequent interactions with industrial research partners. Project involve a range of computing platforms including multicore CPUs, distributed memory clusters, GPUs, & cloud based infrastructure.

Successful candidates will hold a recent Ph.D. in Computer Science, Mathematics, Statistics, or Engineering. They will have experience working on HPC oriented projects and have developed algorithm design, implementation, and evaluation skills. We are seeking individuals who can bring strong technical skills and enthusiasm to an area of research ripe for innovation and who will be able to integrate well into a larger team.

Applicants should send a full Curriculum Vitae, letters from two referees and a cover letter highlighting their prior achievements and a brief summary of their statement of their interest and experience in this area. Electronic submissions are encouraged. Applicants are strongly encouraged to contact Dr. Rau-Chaplin as early as possible to express interest and to ask any questions. Applications will be considered until the positions are filled.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Dalhousie University is an Employment Equity/Affirmative Action employer. The University encourages applications from qualified Aboriginal people, persons with a disability, racially visible persons and women. Applications for postdoctoral positions are accepted subject to funding.

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