The Geometric, Approximation and Distributed Algorithms (GADA) Laboratory in the Department of Computer Science at the University of Manitoba in Winnipeg, Canada, invites applications for the following positions:

- Postdoctoral research, duration one to three years, flexible start date
- PhD student, start date September or January each year

Successful candidates will be selected to work on research projects supervised by Stephane Durocher, which currently include:

- Algorithms for computing geometric measures of data depth
- Algorithms for computing location estimators of spatio-temporal trajectory data

Applicants interested in pursuing research on other projects in algorithms, computational geometry, and data structures are also encouraged to apply.

Interested applicants with a strong background in theoretical computer science should submit the following by email to durocher@cs.umanitoba.ca:

- an overview of research experience
- a curriculum vitae, including lists of publications, degrees obtained and in progress, awards, and scholarships
- URLs to publications and theses
- grade point average and academic transcripts
- contact information for at least two references (email and telephone)

Successful applicants will be offered the following:

- a competitive salary (for postdoctoral researchers) or stipend (PhD student)
- generous financial support for travel to conferences
- a new laptop computer, workspace in the GADA lab, and access to a network of compute servers
- postdoctoral researchers are provided similar benefits to faculty (healthcare, pension contribution, etc.).

The GADA lab is a vibrant research group consisting of five faculty members, approximately ten MSc and PhD students, and several BSc students. Weekly group research discussions are held during the teaching terms, as well as several smaller weekly project meetings.

The Department of Computer Science at the University of Manitoba is a dynamic research department, currently consisting of 30 research and teaching faculty, with clusters of expertise in algorithms, machine learning and computer vision, human-computer interaction, bioinformatics, and distributed computing.

The University of Manitoba has approximately 28,000 students and is the largest research institute in Manitoba. Established in 1877, it was the first university in western Canada. In 2018 the University of Manitoba ranked 12th in a ranking of top research universities in Canada (of approximately 95 universities in Canada).
With a population of over 778,000, the city of Winnipeg is the cultural centre of the Canadian prairie region, with world-class ballet, orchestra, museums, music festivals, a wide variety cuisine in restaurants, and multiple professional sports teams.

For more information:
Stephane Durocher http://www.cs.umanitoba.ca/~durocher/
GADA Lab http://www.cs.umanitoba.ca/~gada/
Department of Computer Science at the University of Manitoba http://www.sci.umanitoba.ca/cs/
University of Manitoba http://www.umanitoba.ca/
Tourism Winnipeg http://www.tourismwinnipeg.com/

The evolving situation regarding COVID-19 makes it difficult to schedule future travel and may create increased uncertainty regarding applications for travel and work visas. We are of course understanding of these challenges, and will assist as best we can. Start dates for the postdoctoral researcher position are flexible.