

2 Ph.D. Positions in Computational Materials Science University of Manitoba

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Posted May 16, 2024, set to expire Sep. 15, 2024

Job Title	2 Ph.D. Positions in Computational Materials Science
Department	Department of Mechanical Engineering
Institution	University of Manitoba Winnipeg,
Date Posted	May 16, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Material/Metallurgy
Apply By Email	
Job Description	

2 Ph.D. Positions in Computational Materials Science

About Us:The **University of Manitoba(U of M or UM)** is a public research university in Manitoba, Canada. The university maintains a reputation as a top research-intensive post-secondary educational institution and conducts more research annually than any other university in the region. The teaching and research activities at the Department of Mechanical Engineering cover multiple mechanical engineering fields including solid mechanics, materials sciences, fluid mechanics, manufacturing and e.g. The department has several well-established laboratories that can handle the design and testing of advanced alloy materials, smart materials and vibration systems equipped with high-performance computers, LMS data acquisition system, Polytec laser vibrometer, Nanosurf atomic force microscope, Nanoindentation test bench and Electron scanning/transmission microscopes. World-leading high performance computing resources are available through Compute Canada and WestGrid.

Main Research Direction: (1) Position 1 will focus on the structure, thermodynamics and/or kinetics of grain boundaries in metals; (2) Position 2 will focus on the design and characterization of high-entropy

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steels. Both positions will use atomistic simulations and machine learning as the main tools.

Supervisor: Dr. Chuang Deng (<https://scholar.google.ca/citations?hl=en&user=k62IEhQAAAAJ>)

Fellowship: \$21000 CAD/year

Requirements:

The candidate should

- 1) hold a M.Sc. degree in Materials Sciences, physics, or a related field;
- 2) have good communication skills (both writing and oral) in English?
- 3) have strong interests in atomistic simulations (MD, DFT, Monte Carlo, etc.) and machine learning. Previous experience in these fields is not required but highly desired;
- 4) have good programming skills (python, C, Fortran, etc.).

Application Procedure:

1) Interested students please send a copy of the official transcripts, a C.V., and inquiries to Dr. Chuang Deng (chuang.deng@umanitoba.ca). 2) Suitable applicants will be contacted for interview.

Application End Date:

International applicants

Term	Annual application deadlines
Fall (September)	February 1
Winter (January)	June 1
Summer (May)	October 1

Useful links: [Mechanical Engineering \(PhD\) | Explore UM | University of Manitoba \(umanitoba.ca\)](#)

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Department of Mechanical and Manufacturing
Engineering
University of Manitoba
Winnipeg,
Canada