

2 Ph.D. Positions in Computational Materials Science at
the University of Manitoba, Canada
University of Manitoba

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Job Title	2 Ph.D. Positions in Computational Materials Science at the University of Manitoba, Canada
Department	Department of Mechanical and Manufacturing Engineering https://umanitoba.ca/engineering/mechanical
Institution	University of Manitoba Winnipeg,
Date Posted	Sep. 17, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Material/Metallurgy
Apply By Email	Chuang.Deng@umanitoba.ca
Job Description	

We are currently recruiting 2 Ph.D. students in the field of computational materials science at the University of Manitoba, Canada.

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 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>)

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Fellowship: \$25000 CAD/year

Requirements:

The candidate should

- 1) hold a M.Sc. degree in Materials Sciences, physics, mechanical engineering, 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.

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.

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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