

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

Direct Link: https://www.AcademicKeys.com/r?job=262657

Downloaded On: Nov. 3, 2025 7:55am Posted Sep. 17, 2025, set to expire Jan. 17, 2026

**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