

Postdoctoral position available on computational materials
at University of Manitoba, Canada
University of Manitoba

Direct Link: <https://www.AcademicKeys.com/r?job=238190>

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Posted Jun. 26, 2024, set to expire Oct. 26, 2024

Job Title	Postdoctoral position available on computational materials at University of Manitoba, Canada
Department	Department of Mechanical and Manufacturing Engineering
Institution	University of Manitoba Winnipeg, Manitoba
Date Posted	Jun. 26, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Material/Metallurgy
Apply By Email	
Job Description	

One Postdoctoral Position Available Immediately on Computational Materials at the University of Manitoba, Canada

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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: The position will employ machine learning for the development of interatomic potentials for simulating the oxidation process of complex concentrated metal alloys.

Supervisor:Dr. Chuang Deng (chuang.deng@umanitoba.ca)

Fellowship: \$40,000 CAD/year plus benefits

Duration: The position is for one year with possibility of extension to a maximum of two years.

Requirements:

The candidate should

- 1) hold a Ph.D. degree in Materials Sciences or a related field;
- 2) have good communication skills (both writing and oral) in English?
- 3) be familiar with density functional theory and molecular dynamics simulations;
- 4) have experience in applying machine learning for prediction of materials properties or training of interatomic potentials.

Application Progress:

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- 1) Please prepare a personal C.V., 1-2 pages research plan, and related publications (if any) and send to Dr. Chuang Deng (chuang.deng@umanitoba.ca).
- 2) Suitable applicants will be contacted for interview.
- 3) Further discussion regarding the possible hiring will follow.

Application End Date: The position is available immediately and all applications will be considered until the hiring of a qualified candidate is confirmed.

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