



UNIVERSITY
OF MANITOBA

Faculty of Engineering

Department of Mechanical Engineering

Postdoctoral Position Available

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 Electronic scanning microscope.

Main Research Directions: (1) High-Entropy Alloy; (2) Functional Graded Materials ; (3) Molecular Dynamics Simulations; (4) Multi-scale Simulations

Supervisors: Dr. Nan Wu and Dr. Chuang Deng (nan.wu@umanitoba.ca, chuang.deng@umanitoba.ca)

Fellowship: 33000 CAD/year with 2 year period

Requirements:

- 1) The candidate should hold a Ph.D. degree in Mechanical Engineering or Materials Sciences before or in January 2020;
- 2) Has good communication skills (both writing and oral) in English;
- 3) Be familiar with molecular dynamics modelling and simulation;
- 4) Has experiences of multi-scale modelling and/or functional grade materials and structures.

Application Progress:

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

Application End Date: Until the hiring of a qualified candidate is confirmed.