



The University of Vermont



One fully-funded Ph.D. position is now available immediately in the area of **computational nanomaterials** in the group of Dr. Jihong Ma (<https://sites.google.com/umn.edu/jihong-ma-group/home?authuser=0>) at the University of Vermont.

The successful candidate will work together with Prof. Jihong Ma on transport properties in nanomaterials via molecular dynamics simulations and density functional theory. Our group has obtained sufficient high-performance computational resources for theoretical calculations at Oak Ridge National Laboratory and Lawrence Berkeley National Laboratory.

The ideal candidate must have a solid background in physics and mathematics and must present a strong motivation for scientific research. Students with degrees in physics, materials science, chemistry, mechanics, engineering, and mathematics are encouraged to apply. Research experience with DFT, DFTB, MD, and/or MM and a good publication record (journal articles) are desired. Applicants must have earned an MS degree and must meet minimum GPA and GRE requirements for Ph.D. admission. International students should also meet the minimum requirements of English proficiency (TOEFL>100 or IELTS>7.0 to qualify for funding. Please visit https://www.uvm.edu/graduate/international_students for more details). Please also attach your TOEFL or IELTS scores if you are an international applicant.

Interested candidates should send a CV with a publication list, a short description of research interests, course transcripts, and names of three references from previous research positions, by email to [Jihong\[dot\]Ma\[at\]uvm\[dot\]edu](mailto:Jihong[dot]Ma[at]uvm[dot]edu). Review of applications will begin immediately and continue until a suitable candidate is identified.

*** Only selected candidates will be contacted. Applicants who do not meet the minimum requirements or with an incomplete application will not be considered.**

About UVM: Founded in 1791, UVM has been called one of the "public ivies" and is consistently ranked as one of the top public universities in the United States. The University is located in Burlington, Vermont, which is also rated as one of the best small cities in America. The greater Burlington area has a population of about 200,000 and enjoys a panoramic setting on the shores of Lake Champlain, between the Green Mountains of Vermont and the Adirondack Mountains of New York. Burlington and the surrounding area provide an environment rich in cultural and recreational activities for individuals and families.