



Open Postdoctoral and PhD Positions

in Experimental Synthesis and *in-situ* Tensile Characterization of Nanocrystalline Metallic Alloys at the University of Vermont (USA)

Applications are invited for postdoctoral and doctoral (PhD) research positions in the Department of Mechanical Engineering and are available immediately. The successful researchers will work in the Sansoz Laboratory for Nanostructured Materials Science and Engineering on funded projects to study grain-boundary segregation and strain localization mechanisms in a range of nanocrystalline metallic alloys. **These positions are focused on experimental nanocrystalline film synthesis and in-situ tensile SEM characterization. Desired fields of expertise are magnetron sputtering film deposition, film lithography, in-situ SEM, EBSD, high-resolution digital image correlation, experimental mechanics and micro-plasticity, Matlab programming.** Postdoctoral applicants must have earned a PhD degree in a field closely related to materials engineering and mechanics and must have recently published in top-tier peer reviewed journals. PhD applicants should be recent MS graduates in mechanical engineering or materials science and must meet minimum GPA and English Proficiency requirements for PhD admission at UVM. More information about the laboratory facilities can be found at: <https://site.uvm.edu/FredericSansoz>

Interested candidates should send a full CV, academic transcripts, and a brief description of materials research interests and qualifications for an open position in the Sansoz Laboratory, by email to:

frederic.sansoz@uvm.edu

About the University of Vermont (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, 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, such as world-class skiing and mountain biking resorts.

About the Mechanical Engineering program at UVM:

The ME graduate program at UVM stands 89th nationally in the Top 49% of the *U.S. News and World Report 2023 graduate school* rankings in mechanical engineering in the United States. Also, the accelerated MS program in mechanical engineering is one of the top ranked accelerated MS programs at UVM. Postdoctoral fellows and graduate students do original research and normally collaborate to publish their work in peer-reviewed journals. The best ME graduate students have won major awards nationally from professional societies and have earned competitive international fellowships.

