

Postdoctoral Research Associate Position at Vanderbilt University

We welcome applications for a post-doctoral position in the [Multiscale Computational Mechanics Laboratory](#) (MCML) at Vanderbilt University. MCML is a part of the interdisciplinary [Multiscale Modeling and Simulation](#) (MuMS) facility.

The successful candidate will work on multiscale modeling and simulation of composite structures subjected to static and fatigue loading. A significant emphasis is on prediction of failure of large size composite structures using multiscale progressive damage analysis techniques. The candidate must have a Ph.D. in Computational Mechanics, Aerospace, Mechanical or Civil Engineering, or a closely related discipline. This work requires expertise on computational homogenization, composite materials, and continuum mechanics. Candidates must therefore have a strong background in mathematics, mechanics and composite materials science. Significant experience on programming is required.

The position is for 12-months, with possibility of renewal based on performance and availability of continued funding. The review of applications will begin immediately and continue until the position is filled. Interested candidates should apply by email to Prof. Caglar Oskay (caglar.oskay@vanderbilt.edu) including the following documents in PDF form: (1) A complete and current curriculum vitae; and, (2) A list of 2 references (including name, affiliation, address, e-mail, and phone number).

Vanderbilt University became the first educational institution to ever be ranked in *Fortune Magazine's* top 100 places to work, and it ranked 12th on *The Scientist's* 2010 Best Places to Work in Academia. *U.S. News and World Report* ranks Vanderbilt 15th in the top 20 universities in the nation. The university is located in the beautiful and historic city of Nashville, which offers a full range of cultural amenities, two major professional sports franchises, an abundance of parks and outdoor recreation, a temperate climate, and a low cost of living. Vanderbilt is an equal opportunity, affirmative action employer with a strong commitment to diversity among its faculty, staff, and students.