Faculty in Medical Modeling and Simulation (Tenure Track/Tenured 3 positions total)
Old Dominion University

Job Title	Faculty in Medical Modeling and Simulation (Tenure Track/Tenured 3 positions total)
Department	AI CLUSTER HIRE INITIATIVE
Institution	Old Dominion University
	Norfolk, Virginia
Date Posted	Jan. 8, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor
	Associate Professor
	Professor
Academic Field(s)	Computer Science
	Bioengineering (all Bio-related fields)
Job Website	https://jobs.odu.edu/postings/22457
Apply By Email	

Job Description

The Batten College of Engineering and Technology (BCET) at Old Dominion University invites applicants for an open rank tenure/tenure track position specializing in Medical Modeling and Simulation to begin in Fall 2025. This is a 10 month tenured/tenure track appointment as part of a multiple position hiring initiative for Medical Modeling and Simulation. We are seeking to hire a cluster of tenured/tenure track and research faculty members to strengthen our medical modeling and simulation efforts in the areas of precision medicine and patient safety. The members of this cluster hire will work closely with the Institute for Engineering in Medicine, Health, and Human Performance (EnMed) in BCET, the Virginia Modeling, Analysis, and Simulation Center (VMASC) and the Sentara Center for Healthcare Simulation and Immersive Learning at Macon and Joan Brock Virginia Health

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Sciences.

The focus of this cluster hire is the interdisciplinary area of data-driven AI and its transformative impact on special education that serves people with various chronic health conditions and disabilities. AI and Machine Learning (ML) techniques are poised to significantly change many practices in special education, from emotional intelligence with earlier and better understanding of behavioral and neuro-cognitive deficits. Development of AI-driven adaptive learning systems, AI-driven therapeutic tools, immersive virtual learning environment and predictive analytics may benefit from availability of large-scale behavior and neuro-cognitive data. A few well-recognized examples include use AI-based computer vision techniques to recognize and identify subtle visual signs for early detection of autism spectrum disorder (ASD), attention deficit hyperactivity disorder (ADHD), developmental disabilities, and Alzheimer and other dementia.

The candidate will be able to:

- Develop an interdisciplinary and externally funded research program in medical modeling and simulation.
- Collaborate with faculty hired in this cluster and other faculty at Old Dominion University.
- Teach undergraduate and graduate engineering courses in one of the five departments in the Batten College of Engineering and Technology.
- Have a demonstrated commitment to diversity, equity, and inclusion.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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