Research Faculty in Medical Modeling and Simulation (Non-Tenure Track, 3 positions) Old Dominion University

Job Title	Research Faculty in Medical Modeling and Simulation (Non-Tenure Track, 3 positions)
Department	AI CLUSTER HIRE INITIATIVE
Institution	Old Dominion University Norfolk, Virginia
Date Posted	Jan. 10, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Professor
Academic Field(s)	Computer Science
Job Website	https://jobs.odu.edu/postings/22483
Apply By Email	
Job Description	

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Department

AI CLUSTER HIRE INITIATIVE

Position Number

F1090A,F1091A,F10902

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Job Description

The Virginia Modeling, Analysis, and Simulation Center at Old Dominion University invites applicants for an open rank research faculty position specializing in Medical Modeling and Simulation to begin in Fall 2025. This is a 12-month research faculty 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 other researchers at the Virginia Modeling, Analysis, and Simulation Center (VMASC), the Institute for Engineering in Medicine, Health, and Human Performance (EnMed) in the Batten College of Engineering and Technology, and the Sentara Center for Healthcare Simulation and Immersive Learning at Macon and Joan Brock Virginia Health 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.
- Have a demonstrated commitment to diversity, equity, and inclusion.

Position Type: FullTime

Type of Recruitment: General Public

Minimum required education and/or special licenses, registrations, trainings, or certifications

1. A Ph.D. or equivalent terminal degree in engineering, computer science, or closely related field,

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complementary to the cluster's core areas of research, by May 2025.
2. Candidates for research assistant professor should have a record of conducting research in modeling and simulation as evidenced by peer reviewed publications.
3. Candidate for associate or full professor must have a demonstrated sustained track record of external federal funding and peer reviewed research publications.

Contact Information

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

Contact

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