

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

Direct Link: <https://www.AcademicKeys.com/r?job=251206>

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Posted Jan. 8, 2025, set to expire Nov. 1, 2025

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

**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**