

The Department of Biomechanics at the University of Nebraska Omaha seeks faculty candidates for a tenure-track faculty position in cardiovascular biomechanics. The anticipated start date is spring 2021. At the time of hire, candidates should have a Ph.D. in Engineering Mechanics, Mechanical Engineering, Materials Engineering, Electrical Engineering, Biomedical Engineering, or closely related field, and excel in experiments, theory, and/or computational modeling. Specific areas of expertise include (but are not limited to) cellular and tissue biomechanics, constitutive and computational modeling, organ and cell culture systems, bioimaging, and cardiovascular devices such as stents, grafts, and catheters.

New hires are expected to develop a research project for the Cardiovascular Biomechanics COBRE within their first year. They are also expected to establish and maintain a world-class extramurally-funded research program and productive collaborations with clinical partners at the neighboring medical centers. Other duties include teaching courses in Biomechanics and related fields, supervising students and research associates, and providing departmental, university, and professional service. For full consideration, please submit the following documents as a single PDF file: cover letter; curriculum vitae; statements of research and teaching interests; contact information of at least 3 references; and specific aims for the project you would like to submit as part of the cardiovascular device-focused COBRE. Review of the applications will begin August 17, 2020 and will continue until the position is filled.

UNO's Department of Biomechanics is one of the first academic departments dedicated to Biomechanics in the United States. It offers undergraduate, Masters, and PhD degrees with concentrations in Biomechanics, Exercise Physiology, Motor Development/Control and Physical Activity. The Department has a strong focus on research, and 60% of its tenure-track and tenured faculty are currently PIs on federal grants, including 5 R01-funded investigators. Since its inception in 2016, the Department has grown to 15 tenure-track and tenured faculty who acquired over \$30 million in federal funding. The Department occupies Biomechanics Research Building with 53,000 square feet of shared laboratory space, office, and collaboration space dedicated to translational biomedical research. The building is located within a two-mile radius of the University of Nebraska Medical Center and the Western Iowa-Nebraska Veterans' Affairs Medical Center. Close proximity to these medical centers facilitates exceptional access to collaborating clinicians, patients, clinical data, and tissues. Biomechanics faculty enjoy light teaching loads, open access to a wide variety of equipment, and interactions with a diverse body of students from multiple UN campuses.

UNO is a vibrant, metropolitan university in the state's largest city Omaha with an enrollment of approximately 15,000 students. In recent decades the campus developed as a more traditional residential university supported by several new and beautifully appointed residence halls. UNO is classified as a doctoral research university in the latest Carnegie Classification of Institutions of Higher Education and the Athletic program competes in NCAA division I. UNO also has the distinction of being one of the nation's leaders in engagement and outreach with a 2015 Community Engagement Classification from the Carnegie Foundation. The campus is located in the heart of Omaha, a cosmopolitan city of more than 600,000 (1.2 million including the large Omaha metro area), which is known for its excellent public school system and strong economic base. The city is home to several racially, ethnically, and culturally diverse groups, and is characterized by myriad places to eat, live and shop.

UNO and Biomechanics Department are committed to diversity among faculty and staff. The University of Nebraska does not discriminate based on race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, height, weight, genetic information, veteran status, marital status, and/or political affiliation in its programs, activities, or

employment. With a metropolitan mission, UNO serves a diverse student body and is actively engaged with the community in myriad ways.

For additional information, please contact Dr. Alexey Kamenskiy, Chairperson, via [akamenskiy@unomaha.edu](mailto:akamenskiy@unomaha.edu).

To apply for this position, please go to <https://unomaha.edu/peopleadmin.com/>. Attach the following documents as a single PDF: Cover letter; Curriculum vitae; Statement of Research Interests; Statement of Teaching Interests; Names, emails, and phone numbers of at least 3 professional references; Specific Aims for the project to be submitted as part of the COBRE.