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Dr. Nathan J. Sniadecki

Assistant Professor

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Dr. Sniadecki is an Assistant Professor at the University of Washington in Mechanical Engineering beginning his appointment in September 2007. His research utilizes micro- and nanofabricated tools to understand how mechanical factors affect the function of cells and tissue. Dr. Sniadecki's current activities are in quantifying how mechanical factors such as force, adhesivity, structure, and material properties influence biological structure at the micro- and nanoscale. The long-term goals of his work are to advance the understanding in the areas of tissue engineering, mechanical injury, and diseases of the cardiovascular, connective, and musculoskeletal systems.

Dr. Sniadecki earned his B.S. in Mechanical Engineering from the University of Notre Dame. He received his Ph.D. in Mechanical Engineering while working Dr. Don DeVoe at the University of Maryland in 2003. His graduate work focused on microscale flow control in microfluidic systems using electroosmotic pumping. He then worked as a Post-Doctoral Fellow with Dr. Christopher Chen while at Johns Hopkins School of Medicine and later at the University of Pennsylvania's Department of Bioengineering. There he studied the mechanical interactions that mammalian cells have with their natural or artificial microenvironments. Dr. Sniadecki was awarded post-doctoral support from the National Institutes of Health's National Research Service Award (NRSA) and the Hartwell Foundation's Biomedical Research Fellowship.