Thanh Nguyen, Ph.D.

Associate Professor at University of Connecticut

Storrs, CT, US

Professor Nguyen focuses on biointegrated materials and devices at nano- and micro-scales for applications in biomedicine

Biography

Nguyen joined the Departments of Mechanical Engineering and Biomedical Engineering at UConn at the beginning of 2016 after finishing his postdoctoral fellowship with Dr. Robert Langer at MIT. His research is highly interdisciplinary and at the interface of biomedicine, materials and nano/micro technology. He has invented and developed a platform technology which can create 3-dimensional microstructures of biomaterials, such as biodegradable polymers for applications in vaccine/drug delivery and medical implants. Recently, his research group has studied and developed a novel biodegradable piezoelectric polymer, which can be used to make a miniaturized implantable force-sensor for monitoring vital biophysiological forces. The sensor can be well-engineered to perform monitoring task and self-vanish after a defined lifetime. Dr. Nguyen?s work has been published in prestigious journals including Science, Nature Nanotechnology etc. and highlighted in major media such as The New York Times, BBC News, Fox News etc. He received several prestigious awards including the NIH Trailblazer Award for Young and Early Investigators, and the SME Outstanding Manufacturing Engineer Award.

Areas of Expertise

Vaccinations, Drug Delivery, Nano

Education

Princeton University

Ph.D.

Accomplishments

National Academy of Inventors 2024 Senior Member

NAI Senior Members are active faculty, scientists, and administrators with success in patents, licensing, and commercialization who have produced technologies that have brought or aspire to bring real impact on the welfare of society. They are rising stars who foster a spirit of innovation within their communities and institutions while educating and mentoring the next generation of inventors.

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