Diana Suciu, Ph.D.

Technology Specialist

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HAMILTON BROOK SMITH REYNOLDS
Intellectual Property Law

PRACTICE AREAS

- Patents
- Design Patents

TECHNOLOGY AREAS

- Medical Devices
- Medical Imaging
- Optics & Photonics
- Hardware
- Software
- 3D Printing
- Electrical Engineering

EDUCATION

- B.S. in Biomedical Engineering - Devices & Instrumentation, Case Western Reserve University
- M.S. in Biomedical Engineering - Neural Engineering, Case Western Reserve University
- Ph.D. in Biomedical Engineering - Optics & Medical Devices, Boston University

Diana Suciu, Ph.D., is a biomedical engineer specializing in optical systems, medical devices, and translational clinical research.

She earned her Ph.D. in Biomedical Engineering from Boston University, where her research focused on biomedical optics and medical device development. Her doctoral work centered on the development of advanced, non-invasive optical technologies for continuous physiological monitoring. She designed and built a novel combined frequency-domain and broadband diffuse optical spectroscopy system and led a multi-year clinical trial evaluating its use in monitoring hydration in patients undergoing hemodialysis. In this role, she managed all aspects of the study, including regulatory compliance, patient recruitment, data collection, and analysis, while collaborating with multidisciplinary clinical and engineering teams.

Prior to her doctoral studies, Diana conducted research in neural engineering at Case Western Reserve University, where she investigated the relationship between neural activity and metastatic breast cancer progression. Her work involved designing complex in vivo experiments, developing surgical implantation techniques, and fabricating custom microelectrodes for neural recording and stimulation.

Diana has also held industry and clinical research roles. As a Science Intern at Oura Health, she designed and validated tissue-mimicking optical phantoms to support the development and calibration of wearable biosensors, contributing to advancements in physiological sensing. Previously, as a Biomedical Engineer with the Department of Veterans Affairs, she contributed to federally funded research initiatives by developing prosthetic limbs that use targeted neural stimulation to restore sensation in patients with limb loss. At Cleveland Clinic, she served as a Research Engineer, leading clinical studies on the biomechanics of carpal tunnel syndrome, securing research funding, and managing regulatory submissions.

Her technical expertise includes diffuse optical spectroscopy, ultrasound imaging, MRI segmentation, and experimental design, along with programming in MATLAB, Python, Arduino, and R. She brings strong experience in clinical trial management, regulatory processes, and cross-functional collaboration, complemented by a hands-on background in prototyping, machining, and device development.