The Jacobs Institute is a non-profit medical device innovation center based in Buffalo, New York, specializing in medical devices to treat heart attack, stroke, and other vascular diseases.
Strategically located at the heart of both a world-class university research institute and a state-of-the-art hospital, the Jacobs Institute is uniquely positioned to foster collaboration between entrepreneurs, physicians, engineers, and researchers. The JI has the tools to innovate product development and provide training expertise, all under one roof, with real-time physician feedback.

The JI provides unparalleled access for industry engineers and sales representatives to immerse themselves in a clinical environment and bolster their professional experience.

The JI’s i2R, or Idea to Reality Center, is the smartest, fastest, most cost-effective way to develop an endovascular device idea. We have the right people, in the right place, at the right time.

We are respected as pioneers in 3D printing for vascular disease. The 3D printer manufacturer, Stratasys, designated the JI as its first U.S. 3D Printing Center of Excellence in Health Care.

“The JI has a brilliant vision to unite various experts in an innovative ecosystem under one roof and raise the what-if and why-not questions. This is bound to lead to extraordinary innovations that will address some of the most significant unmet challenges in medicine.”

– Fred Khosravi
Silicon Valley device entrepreneur

OUR EXPERTS SUCCESSFULLY HELP OTHERS INNOVATE, LEARN, AND LEAD.

Our on-site physician leaders provide constant feedback to entrepreneurs innovating in the i2R. The physicians educate industry program participants about device selection and treatment decisions. Industry device testing is facilitated by the physicians using our customizable, 3D printed vascular models. Finally, our leadership expertise in entrepreneurship provides valuable insight and guidance.

CHIEF EXECUTIVE OFFICER
William J. Maggio

Bill Maggio is a health care, medical diagnostics, and business development executive. He plays a leadership role in a number of health care and biotech ventures. He is a managing partner at Lorraine Capital LLC, a private investment firm based in Buffalo. Bill serves as an advisor on a number of local, national, and international boards. He is also the immediate past chairman of the country’s largest business competition, 43North.

FOUNDER & CHIEF SCIENTIFIC OFFICER
L. Nelson Hopkins, MD, FACS

Dr. L. Nelson Hopkins is a State University of New York (SUNY) Distinguished Professor, the highest rank of faculty in the SUNY system. He pioneered endovascular neurosurgery and has trained a new generation of neurosurgeon leaders skilled in catheter-based technology for minimally invasive neurosurgery to treat aneurysm and stroke. Dr. Hopkins is widely published and has served on the boards of prestigious neurosurgical societies, and was principal investigator for several national clinical trials. He is the founder of Kaleida Health’s Gates Vascular Institute (GVI), and is responsible for envisioning the ground breaking, collaborative model here.

CHIEF MEDICAL OFFICER
Adnan H. Siddiqui, MD, PhD, FACS

Dr. Adnan Siddiqui is a professor of neurosurgery at the State University of New York at Buffalo (UB). He is versed in neuroscience research and neurosurgery, specializing in endovascular neurosurgery. Dr. Siddiqui is published in peer-reviewed neurosurgical journals, textbooks, and has lectured around the world. He has served in leadership roles on prominent neurosurgical societies and leads the neuroendovascular research and stroke service at the GVI.
WE EMPOWER MEDICAL DEVICE ENTREPRENEURS TO INNOVATE.

The JI’s primary focus is on Engineering Services in our laboratories and in our i2R or Idea to Reality Center. The i2R is focused on developing smart-engineered endovascular medical devices at a faster pace and in a more cost-effective way. Our on-site surgical experts and engineers means the i2R can quickly prototype and validate potential devices, thereby streamlining the proof-of-concept process for entrepreneurs.

Our quality system guides our Engineering Services to provide quality assurance for clients. Quality drives our medical device design and development processes, as well as the design, development, and manufacturing of our signature 3D printed vascular and cardiac models used to help fast-forward innovation.

WE EMPOWER THE MEDICAL DEVICE INDUSTRY TO LEARN.

Training & Experiential Learning in the JI Training Center offers unique experiences for physicians and industry executives, sales representatives, and engineers. Our programs immerse guests in the clinical environment, providing an intimate understanding of disease states, imaging, device selection, and how devices interact with the vasculature. We provide guests with realistic, hands-on simulation experiences on our customizable 3D printed vascular models and the Mentice® vascular surgical simulator.

WE EMPOWER WESTERN NEW YORK STUDENTS TO LEAD.

The JI inspires the next generation with Education & Leadership programs for middle school students through college and beyond. The JI’s college-level summer internship is an experience unlike any other. Students manage projects, get hands-on experience, and build professional networks, while honing critical presentation skills. Our interactive grade school programs teach WNY students about vascular diseases, while inspiring careers in health and science.
ABOUT THE JACOBS INSTITUTE

MISSION
Our mission is to accelerate the development of next-generation technologies in vascular medicine through collisions of physicians, engineers, entrepreneurs, and industry.

VISION
Our vision is to improve the treatment of vascular disease in Western New York and the world, while fostering local economic development, and honoring the memory of Lawrence D. Jacobs, MD.

IDEA TO REALITY
In our i2R, or idea to Reality Center, we conceive the next generation in medical technology in vascular medicine. The i2R focuses squarely on developing novel, smart-engineered endovascular device ideas at a faster pace and in a more cost-effective way.

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