



The Jacobs Institute (JI) 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.

COME INNOVATE WITH US.

A NEW PARADIGM. IT'S WHY WE'RE DIFFERENT.

Strategically located at the heart of both a world-class university research institute and a state-of-the-art hospital, the JI is uniquely positioned to foster collaboration between physicians, engineers, researchers, and entrepreneurs. The JI has the tools to innovate technology development and provide training expertise, all under one roof, with real-time physician feedback.

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

The Jacob Institute's i2R, or Idea to Reality Center, is the smartest, fastest, most cost-effective way to develop an endovascular medical 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*



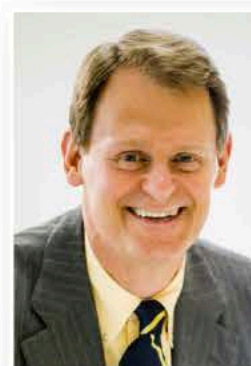
OUR EXPERTS PIONEER THE FUTURE OF VASCULAR MEDICINE.

Our on-site physician leaders provide constant feedback to our partners 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 & CHIEF MEDICAL OFFICER **Adnan H. Siddiqui, MD, PhD, FACS, FAHA**

Dr. Adnan Siddiqui is professor of neurosurgery at the State University of New York at Buffalo (UB). He is the director of neuroendovascular research and stroke service at Kaleida Health's Gates Vascular Institute (GVI), and director of the UB Canon Stroke & Vascular Research Center (CSVRC). He is also a practicing surgeon with the University at Buffalo Neurosurgery (UBNS). Dr. Siddiqui is published in peer-reviewed neurosurgical journals, textbooks, and has lectured around the world. He has also served in leadership roles on prominent neurosurgical societies.



FOUNDER & CHIEF SCIENTIFIC CONSULTANT **L. Nelson Hopkins, MD, FACS**

Dr. L. Nelson Hopkins was appointed 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 groundbreaking, collaborative model here at the JI.



CHIEF OPERATING OFFICER **Mike Springer**

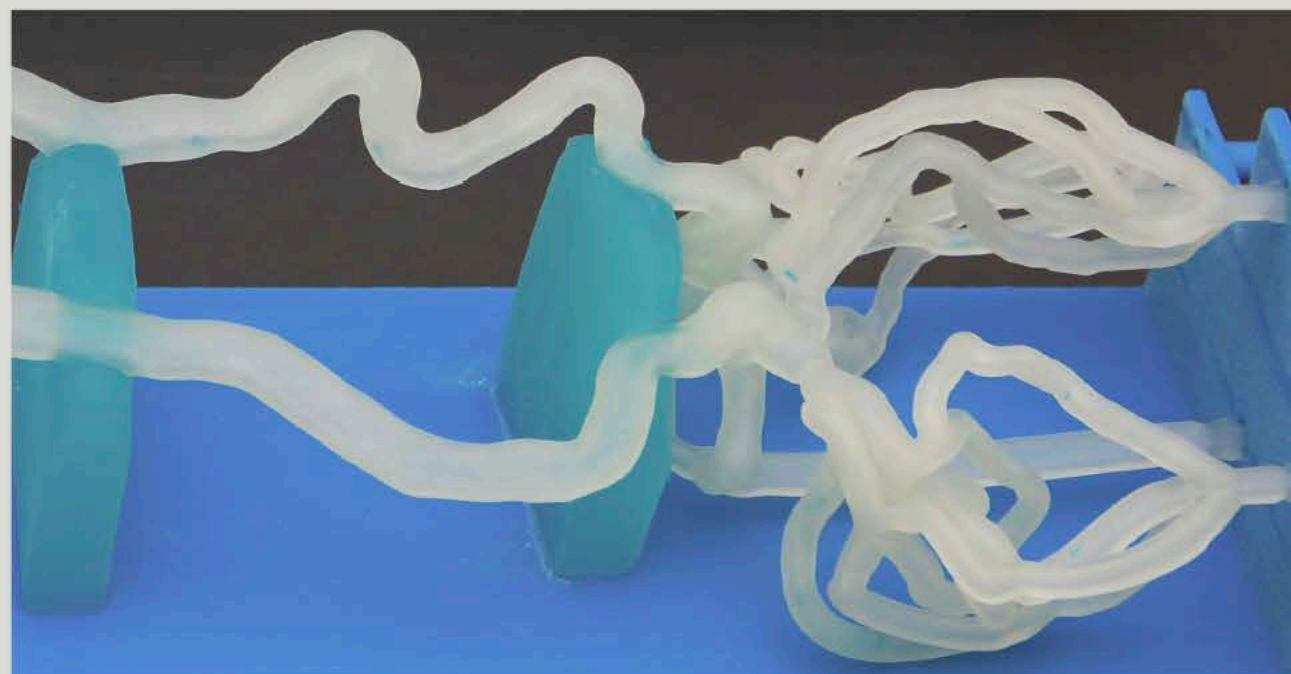
Mike Springer oversees all aspects of technology at the JI, including engineering, development, and program management for the i2R. He recruits entrepreneurs and guides them through the i2R innovation process, ensuring engineering and physician feedback, along with managing all JI daily operations. Springer cultivates partnerships that advance JI's technology, particularly in establishing the institute as a leader in 3D printing of vascular flow model.

THE JACOBS INSTITUTE EMPOWERS YOU TO INNOVATE, LEARN, AND LEAD.



WE EMPOWER MEDICAL DEVICE ENTREPRENEURS TO **INNOVATE.**

The JI's primary focus is on **Innovation & Medical Technology Development** 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 mean the i2R can quickly prototype and validate potential devices, thereby streamlining the proof-of-concept process for innovators.



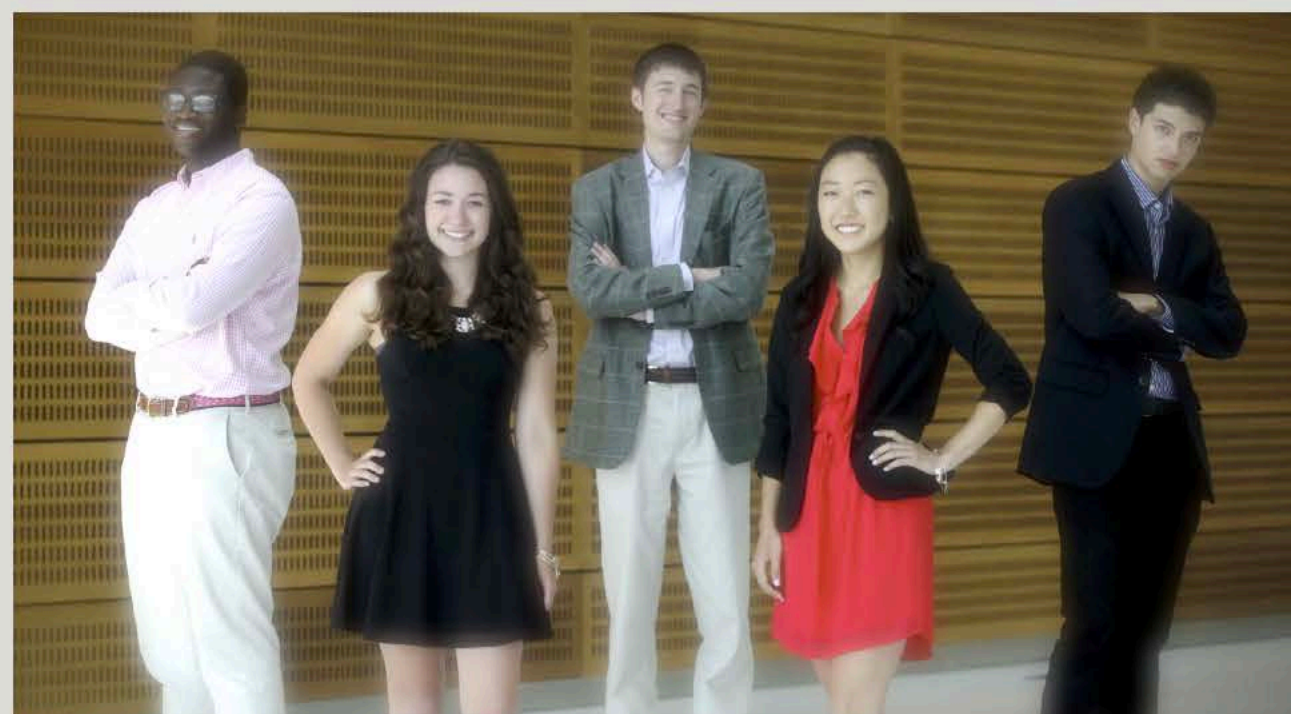
WE EMPOWER THE MEDICAL DEVICE INDUSTRY TO **LEARN.**

Training & Experiential Learning in the JI Training Center offers unique experiences for physicians, 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 flow models and the Mentice® vascular surgical simulator.



WE EMPOWER WESTERN NEW YORK STUDENTS TO **LEAD.**

The JI inspires the next generation of healthcare and medicine for Western New York with **Education & Leadership** programs for middle school students through to college students and beyond. The JI's college and high school 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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