



YOUTH EDUCATION PROGRAMS

THE JACOBS INSTITUTE

ABOUT US

The Jacobs Institute (JI) is a nonprofit medical device innovation center whose mission is to accelerate the development of next-generation technologies to treat the vascular disease crisis in Western New York and beyond. Strategically located at the heart of both a world-class university research center and a state-of-the-art hospital, the JI is uniquely positioned to foster collaboration between physicians, engineers, researchers, entrepreneurs, and industry. The JI has the tools and expertise to rapidly develop cutting edge medical technology with real-time physician feedback, provide clinical immersion training, and generate critical regulatory strategy – all under one roof.

OUR PURPOSE

We strive to positively impact our community by providing youth education and leadership programs to local students. By engaging students with hands-on learning about disease prevention and exposure to career opportunities in STEM, we hope to fuel the ambitions of our future workforce and build a healthier WNY community.

Western New Yorkers suffer from higher rates of stroke and heart attack than the rest of the state. We equip youth with the tools to reduce their risk of developing heart disease and help their loved ones in case of emergency.

We place an emphasis on increasing the diversity of the STEM and healthcare industry, by creating unique opportunities for students coming from economically disadvantaged and historically underrepresented backgrounds to explore the growing medical and technology centers in Buffalo. All of our programs are offered at no cost, and we also partner with local organizations to provide resources and promote learning for an even larger audience.

"I experienced many new and exciting things that I would not have had access to outside on this field trip. Because of this experience, I am now considering many more jobs in the medical field that I was just a few days ago."

-7th grader



STUDENT PROGRAMS

BRAIN BOOT CAMP

An experience that goes beyond traditional classroom learning to teach students about medicine, STEM careers, and innovation. Investigate the risk factors of vascular disease; learn how to recognize symptoms and react to stroke and heart attack; and explore current neurovascular treatments. Tour our unique facility, see 3D printers and models, practice operating on our surgical simulator, and participate in activities which highlight the engineering design process.

- Offered year-round for groups of up to 30 people in grades 7-12.



Can't come to our office?

Ask about our mobile BBC!

NEXT-GEN INTERNSHIP

The summer high school internship is designed for rising juniors and seniors who have a budding interest in STEM and medicine. Students will choose and present a research project, hear health science lectures from physician scientist, Dr. Ken Snyder MD/PhD, attend career presentations from nurses, therapists, and researchers, observe live medical procedures and more. This two-week experience allows students to discover new career pathways, and increase their confidence and knowledge in STEM.

COLLEGE INTERNSHIP

Each intern is given a mentor and assigned a project based on the company's needs and the interns' interests and capabilities. For 8 weeks, interns will plan and execute deliverables which include a final presentation on their work at the conclusion of the internship. Students have the opportunity to shadow neurosurgeons and cardiologists, attend medical conferences, network with key leaders from the Buffalo Niagara Medical Campus, and improve their leadership, organization, and communication skills.

- Check out our YouTube page to view last year's presentations!

Where are they now?

Abbott

Jacobs Institute

Boston Scientific

MD & PhD Programs

Johnson & Johnson

Medtronic

Apple

Extras

In addition to our on-site opportunities, the JI also hosts live health and career themed webinars and participates in science exhibitions. Tell us how we can help at your next community STEM event!



**The JI welcomes over 300 students
per year from schools such as:**

City Honors (PS 195)
Buffalo Prep
St Joe's Collegiate Institute
Charter School of Applied Technology
Math, Science, and Technology Prep (PS 197)
International Prep (PS 198)
Health Science Charter School
Lancaster High School
Research Lab High School (PS 366)
Hamburg High School
Nichols School
Riverside (PS 208)
Mt Mercy Academy
Erie 1 BOCES
UB BEAM

CONTACT US



JACOBSINSTITUTE.ORG

Pamela Marcucci

Vice President, Programs
pmarcucci@jacobsinstitute.org

Heather Campbell

Education Coordinator
hcampbell@jacobsinstitute.org

Jacobs Institute
875 Ellicott St, 5th floor
Buffalo, NY 14203
716-888-4800