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### From Coast to Coast... it all Starts Here!

### **VICEROY Lead Virtual Institutes:**

Mississippi State University North Carolina Agricultural and Technical State University

North Dakota State University

Northeastern University

**SUNY Albany** 

Texas A&M University

University of Alabama in Huntsville

University of Colorado, Colorado Springs

University of Detroit Mercy

University of Kansas

University of Texas at San Antonio

Virginia Tech

**Washington State** 

### **VICEROY Virtual Institutes:**

Alabama A&M Augusta University Bismarck State College Central Washington University

City University of Seattle Clark Atlanta University

Florida International University

Kennesaw State University

Macomb Community College

Minot State University

Montana State University

Norfolk State University

North Dakota University System

Northern Arizona University

Oakland Community College

Ohio State University

Old Dominion University

Prairie View A&M University

**Purdue University** 

San Antonio College

Texas A&M of San Antonio

Tuskegee University

University of Arizona

University of Colorado Boulder

University of Colorado Denver

University of Houston

University of Idaho

University of South Carolina

Washtenaw Community College

**VICEROY Internship Locations:** 

Air Force HNC CY, TX

Eglin AFB, FL

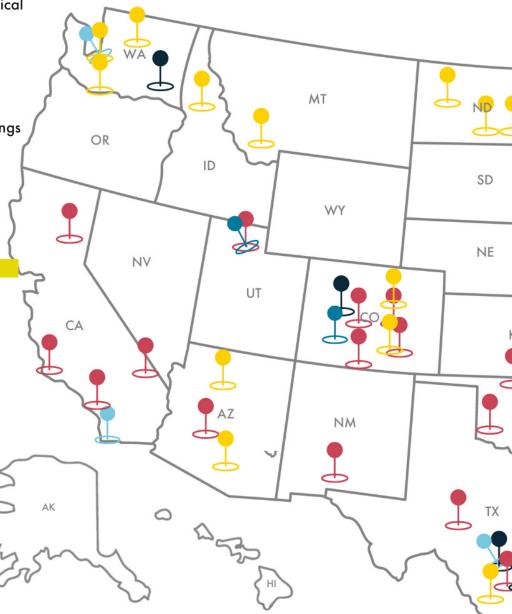
Keesler AFB, MS

Keyport NUWC, WA

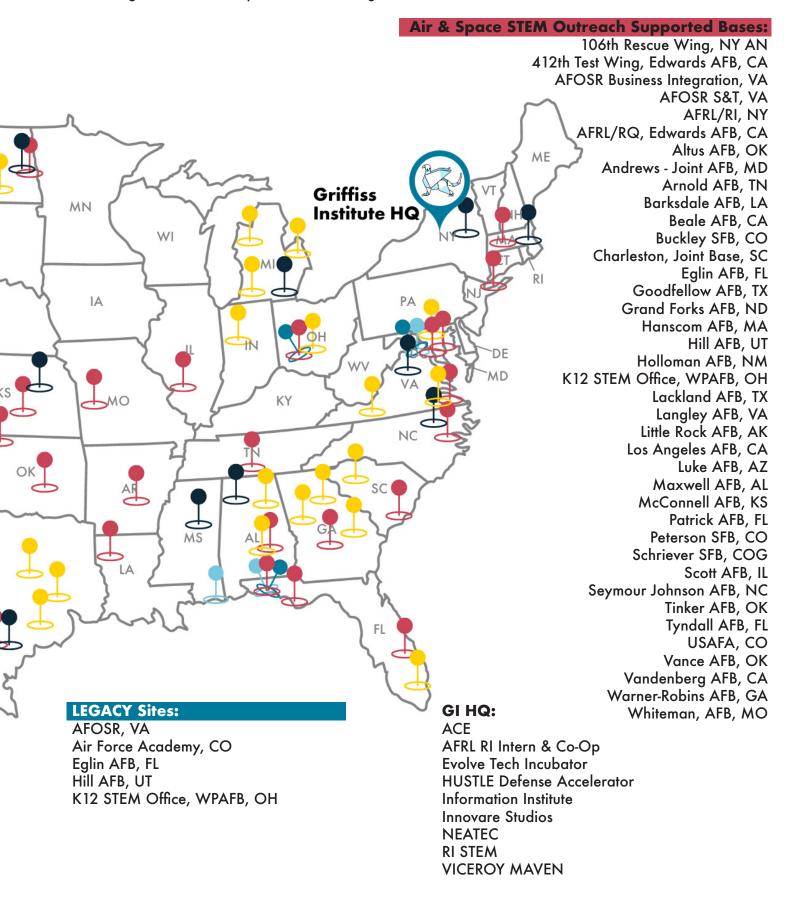
Navy Research Lab, Washington DC

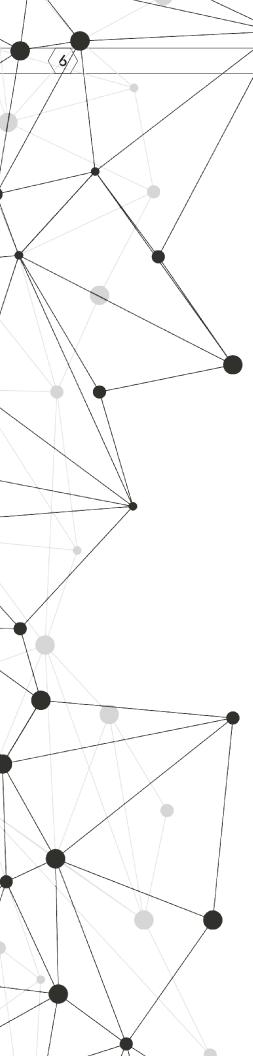
NIWC PAC, CA

Wavelength/JBSA, TX



Griffiss Institute's national network allows us continuous expansion of our programs and partnerships that bring forth the development of the next generations of STEM Talent.





### **About Griffiss Institute**

The Griffiss Institute (GI) is more than just your average organization—it's an enterprise, a 501(c)(3) STEM powerhouse dedicated to fueling innovation in the American Defense Industrial Base. Headquartered at the vibrant Innovare Advancement Center in Rome, NY, we specialize in bringing together top-notch teams and cutting-edge technologies to tackle the toughest national security challenges.

At the Griffiss Institute, our mission is clear: we're passionate about fostering talent and advancing technology to build a stronger, safer America. From nurturing young minds to empowering professionals at various stages of their careers, we're committed to creating an ecosystem that's supportive and dynamic.

At the heart of our enterprise lies defense tech transfer. Innovation doesn't stop in the lab-it's about getting those game-changing solutions out into the world where they can make a tangible impact. At Griffiss Institute we can connect you to a diverse range of technologies spanning cybersecurity, artificial intelligence, unmanned aerial systems, quantum computing, and more. Our network showcases the latest advancements developed by leading researchers and innovators from around the globe.

We inspire, engage, and prepare the next generation of scientists, engineers, and entrepreneurs to turn groundbreaking ideas into real-world solutions for the betterment of our national security.

### **Our Leadership**

The 2023 Executive Leadership team at the Griffiss Institute serves as the cornerstone of our organization, driving our dynamic team to push boundaries in fulfillment of our mission.



**Heather Hage**President & CEO



**Seth Mulligan**Chief Operations
Officer



Mike Wessing Chief Engineer



**Todd Humiston**Chief Talent
Officer



**Melissa Tallman** Chief Brand Officer



**David Semadeni** Chief Financial Officer



**Tracy DiMeo**Executive Office
Manager

### **Our Board**

The Griffiss Institute Board of Directors provides strategic guidance and oversight, ensuring the organization achieves its mission and long-term goals.



Patricia
Baskinger
AX Enterprise, LLC
Chairperson



Col. William Gray Ret. USAF, AFRL/ RI, Emeritus Vice Chairperson



**Steven J. DiMeo**Mohawk Valley
EDGE
Treasurer



Peter Baildon Senior Vice President of Commercial Banking M&T Bank



Tim Butcher
Executive Director of
Operations
White Management
Corporation



Mark Gastin Partner & CPA Bowers & Company CPAS PLLC



Charles Green
President & CEO
Assured
Information
Security



Dr. Richard Joseph Ret. United States Air Force



Dr. John Marsh Ret. Chair for the Dep. of Network & Computer Security SUNY Polytechnic Institute



Laurel McAdoo Director of Talent, Culture & Inclusion SUNY Research Foundation



William VanShufflin, Jr. Senior VP of Strategic Initiatives Mohawk Valley EDGE



### A Message from our President & CEO

As we turn the page on another year, I can only look back on 2023 with tremendous gratitude for the people and partners who elevated our mission and impact to unprecedented heights. In the blink of an eye, 2023 ushered in opportunities for Team GI to apply the past 20 years of our hard-earned experience in delivering STEM education and technology transfer opportunities to our home community of Rome, NY, and begin to scale it to a national platform.

The demand signals for nontraditional STEM education across the American P-20 landscape have never been stronger, with a tight labor market and increasing demand for an American workforce that is more highly skilled in fields that align with our nation's critical technology areas. A telling example: the very first STEM Camp we hosted for Rome Lab in 2023 was fully booked within a mere matter of minutes of registration opening. All of 2023's nine STEM camps in Rome were completely filled within a matter of 24 hours, leaving room for our

teams to collaborate for more STEM adventures for 2024 as the interest and need was soaring skyward in our home community. In alignment with this trend, our STEM talent development programming portfolio saw significant growth in 2023, with 158 STEM campers, 327 collegiate interns, and 69 visiting researchers participating in GI programs across the nation.

Delivering a national agenda also means delivering a clear corporate strategy and core operation that is highly effective and efficient, with a strong culture of compliance and commitment to service excellence. Our 2023 Corporate Operating Plan was aptly themed Build to Scale as a reflection of our need to elevate our business systems, policies, processes, and most importantly, our people, to rise to the challenge of rapid growth. Critical investments in facilities, IT and A/V infrastructure, systems integration, and a brand and digital refresh, including planning for the rebranding of the GI website to offer an improved look and better user experience for the thousands of users in academic, industry, and government communities who interact with us each year.

We welcomed new members to our staff and board, while we thanked others for their service. Notably, we wished a fond farewell and deep aratitude with a Lifetime Service Award to GI board veteran of 20 years Dr. Shiu-Kai Chin, who retired this year from the GI and his distinguished career in teaching and research at Syracuse University, where he was also honored with SU's Chancellor's Medal, the University's highest honor.

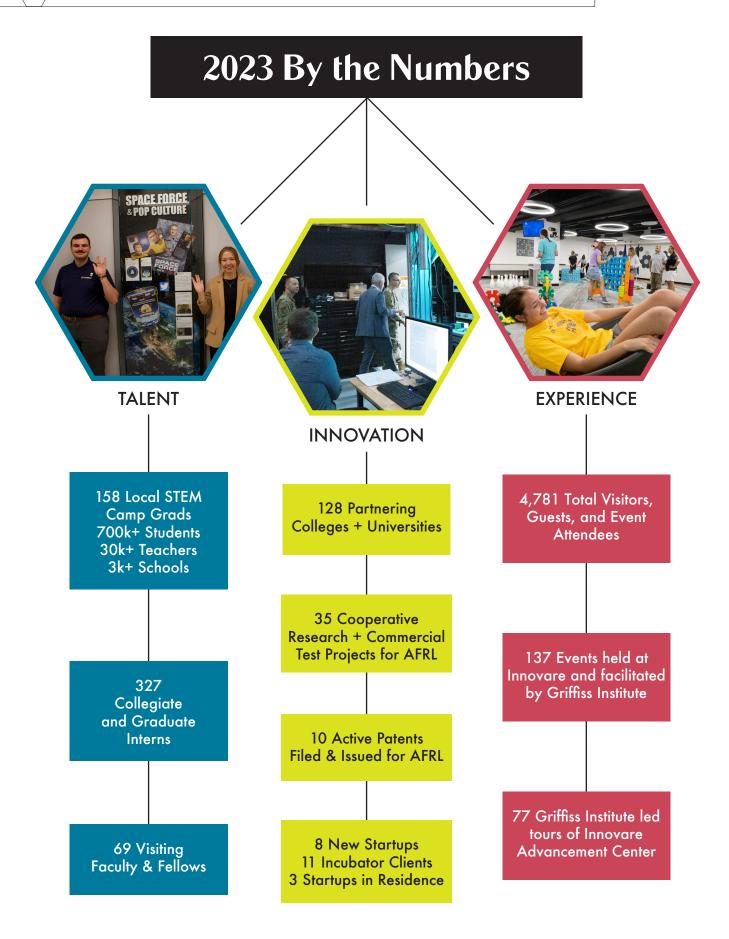
Working alongside for the second year, with the Women's Fund, to honor four women-owned businesses here in the Mohawk & Herkimer Counties, we are always happy to give back and celebrate the success of others who contribute so much to our communities.

Here's to continuing this journey in 2024 with the same spirit of innovation, collaboration, and gratitude that brought us here.

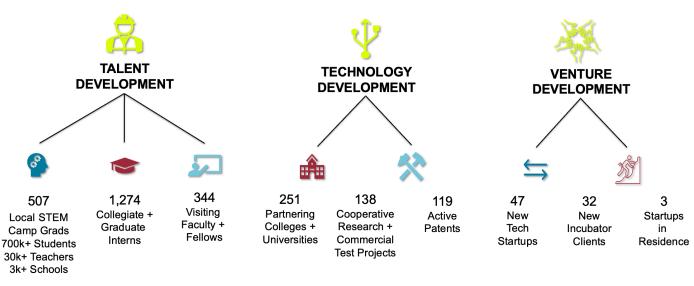
Sincerely,

Heather Hage





### 2019 - 2023 Recap A look back on the evolution of the Griffiss Institute

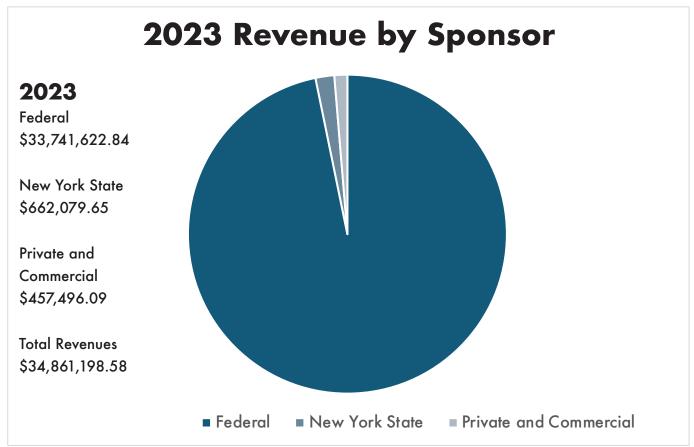


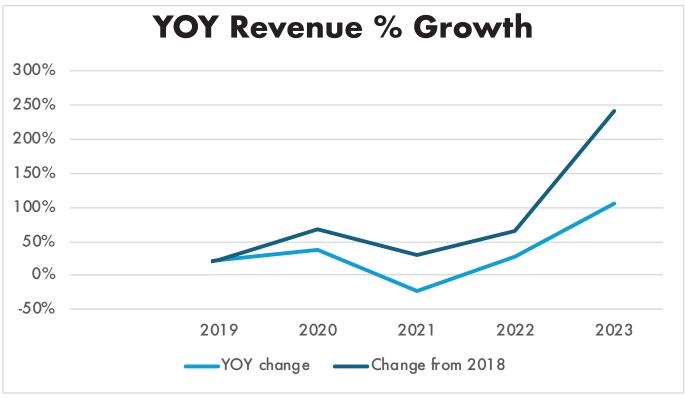
Preparing Technical Talent for Defense Industrial Base Service DOD Partnership Intermediary

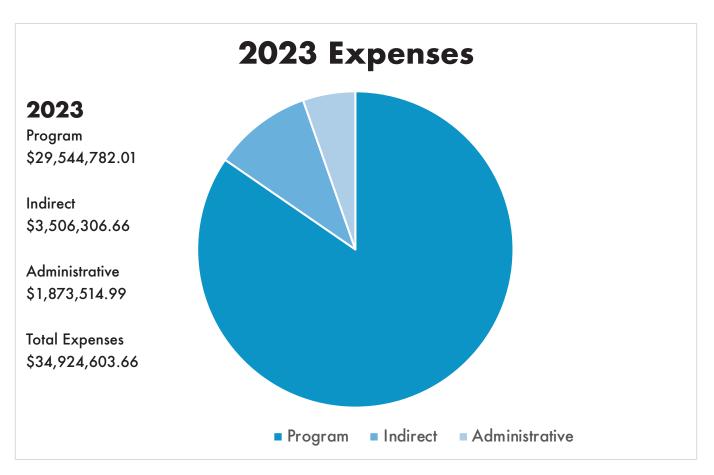
Defense Technology Mission Studio



### **Financials**







### **2023 Employment Metrics**

	2020	2021	2022	2023
FT Employees	14	16	24	39
PT/Contract Employees	17	18	19	11
Total # Employees	31	34	43	50
# New Hires	2	15	24	19
Turnover Rate	3.3%	28.3%	37.8%	21.5%
Average Cost Per Hire	\$8.1K	\$58.6K	\$60.9K	\$77.3K

### **New Employees**

The Griffiss Institute welcomed 17 new employees in 2023 to join our mission and bring our organization to the next level of productivity and success.



**Brian Abbe** SME, Innovation & Partnerships



**Kyler Alm** LEGACY, Hill Air Force Base Site Lead



**Svea Anderson** STEM Education Specialist



**Ariana Belluscio** Project Support Associate, Interns



**Dr. Yu Chen**Talent Director,
Internet of Things



**Darian Deeley**MarCom
Coordinator



Michael Feng
Director, Commercial
Partnerships &
Market Activation



**Khattab Girshab** Application Support Specialist



Matthew Gwilt AFRL/RI STEM Intern



**Todd Humiston** Chief Talent Officer



Thomas Kramer Manager, Safety & Security Operations



**Brian Marshall**Manager,
Information
Technology



**Dave Malsom** Manager, Talent Division Portfolio



Pam Mustee Manager, Marketing & Communications



**Bambi Patterson** Project Support Associate, VICEROY



Brady Shuck ACE Exercise Development Engineer

### 2023 Highlights

A look at some of the most prominent moments from 2023 and the impact they've had on our region and economy.



Timothy Sakulich, Executive
Director of AFRL visits the
Innovare Advancement
Center to observe how
academia, industry, and
government come together
to address challenges to our
nation's security.

The 2023 Innovare
Summer Soiree celebrated
the 55+ visiting professors,
100+ interns, 50+ research
fellows, 9 HUSTLE Defense
Tech startup teams,
and the work of all our
business partners.





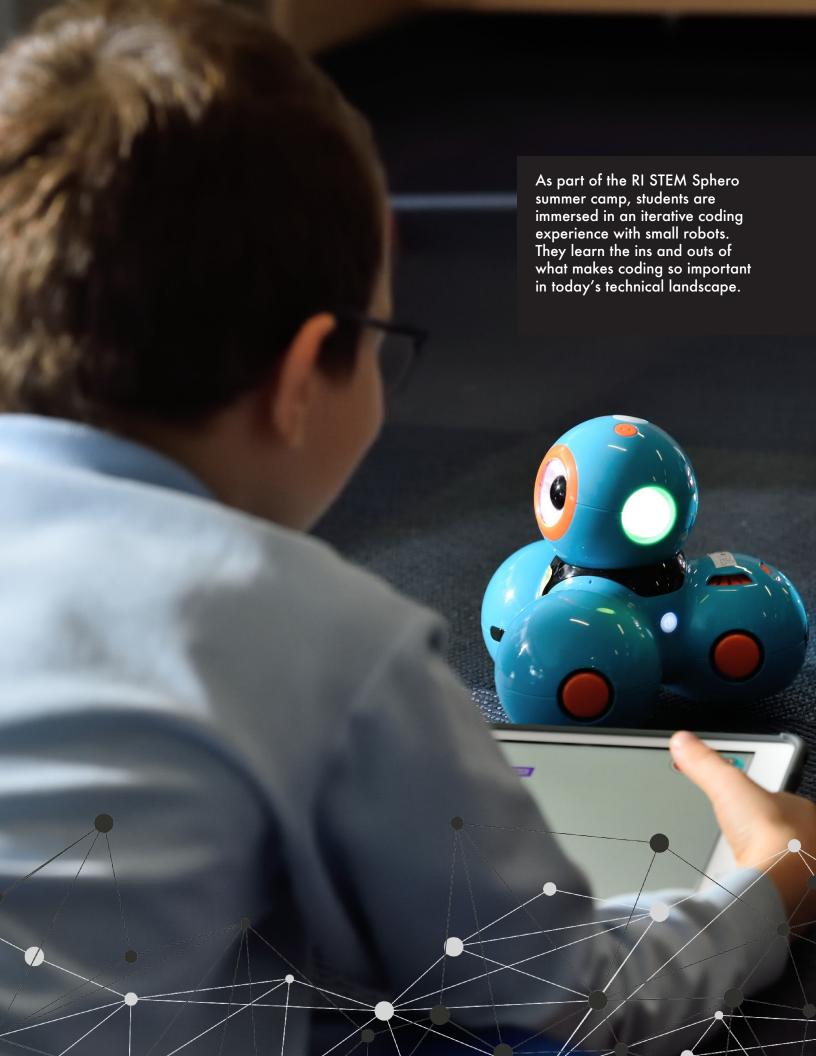
Griffiss Institute hosted AFRL's 5th Annual Quantum for International (Q41) Workshop, a technical networking event aimed at fostering collaboration and innovation in the field of quantum technology.

EMPEQ takes home the grand prize of \$150,000 from the 2nd cohort of Griffiss Institute's HUSTLE program sponsored by New York State and National Grid.





The Information Institute® hosted 69 visiting faculty and fellows from American Universities to work with AFRL Scientists and engineers. Poster Sessions are held to showcase their accomplishments.



### **STEM at Griffiss Institute**

The Air & Space STEM Outreach Program is all about nurturing the next generation of scientists, mathematicians, engineers, and tech enthusiasts.

We're aiming for these bright minds to one day make groundbreaking discoveries and solve challenges in national defense labs and across a wide range of companies.

To make this happen, it takes a collective effort. We're talking about bringing together businesses, government agencies, educational institutions, professional groups, teachers, and students.

That's where the Griffiss Institute and AFRL/RI join forces to host the RI STEM summer camps. These camps go beyond the classroom, giving students the chance to dive deeper into their education.

At camp, students get hands-on experience and learn skills that directly relate to STEM careers. In 2023 we ran 9 camps with a total attendance of 157 campers from both near and far.

Our Camps covered everything from LEGO Robotics and Cybersecurity to Principles of Flight and even Quantum Innovation! There was truly something for every aspiring scientist, engineer, and tech whiz.

But here's the real kicker: these camps aren't just about STEM. They plant seeds of inspiration, encourage personal connections and friendships, and motivate the students to pursue STEM-focused paths in high school and beyond graduation.





	2020	2021	2022	2023
LEGO Robotics	n/a	12	32	31
Arduino	13	15	19	17
Drones	n/a	11	14	11
Quantum	n/a	16	21	17
Cyber 1.0	23	15	16	15
Principles of Flight I	n/a	n/a	24	16
Principles of Flight II	n/a	n/a	7	16
Sphero	n/a	n/a	n/a	18
Engineering	n/a	n/a	n/a	16

### LEGACY Leadership Experience Growing Apprenticeships Committed to Youth

The Air Force LEGACY program is all about paving the way for the next generation of STEM stars. We're on a mission to inspire and nurture young talent, aiming to shape the future of America's STEM workforce.

The LEGACY vision? To be the go-to program for bringing students into the STEM pipeline and boosting our nation's STEM workforce.

LEGACY unfolds in three phases, starting from age 11 and going all the way through college. We're all about sparking that STEM interest early, keeping the flame alive through high school, and ultimately landing students in their dream STEM careers.

Phase 1: Craftsman (Ages 11-15) Think of this as a cool, handson STEM camp for middle schoolers. Best part?

It's totally free!

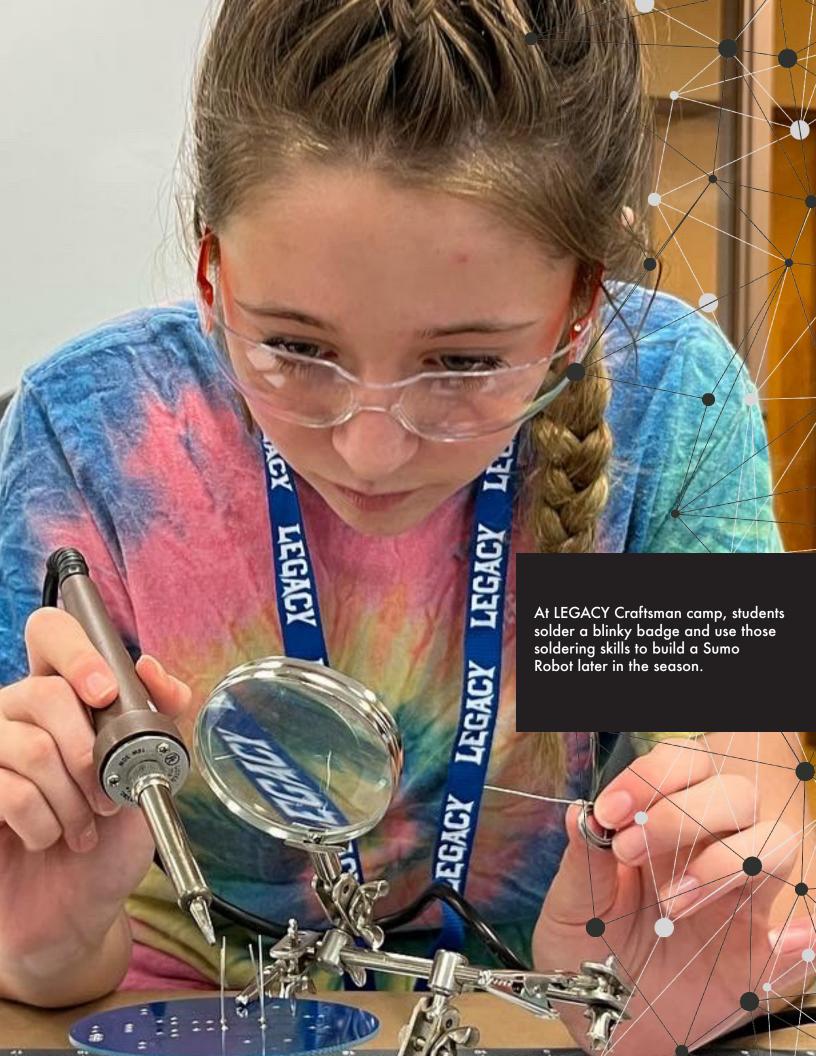
Phase 2: Junior Apprentice (Ages 16+) Get ready to roll up your sleeves and work alongside Air Force mentors. We're not just talking about learning here; we're laying down the groundwork for the future.

Phase 3: Apprentice (College)
College-bound? We've got you
covered. We'll hook you
up with the right programs,
making sure your transition from
college to career is smooth
and seamless.

Run by our epic team at the Griffiss Institute, LEGACY is happening in multiple locations across the country, including Dayton, Colorado Springs, Niceville, Salt Lake City, and Arlington.



	2020	2021	2022	2023
Students	367	399	354	368
Craftsman Camps	20	25	25	25
Jr. Apprentice	53	83	80	62
Apprentice	27	16	17	38
Target Candidate	81%	81%	73%	84%
Return Rate	83%	84%	86%	82%





### **HACK-A-SAT**

HACK-A-SAT is like the Olympics of cybersecurity, where the world's best tech wizards go head-to-head in a Capture the Flag (CTF) showdown.

Sponsored by the Space Force and the Air Force Research Laboratory, the 2023 event was held at DEF CON 31 in Las Vegas, marking a huge leap forward in protecting Defense Department satellites from cyber threats.

This cutting-edge competition aims to rally top-notch cybersecurity talent from across the globe, equipping them with the skills needed to bolster the security of space systems.

In previous HACK-A-SAT events, elite teams honed their skills both on physical hardware and digital simulations. But in 2023, things went to a whole new level with Hack-A-Sat 4 — the world's first-ever CTF competition IN SPACE.

Picture this: Five Finalist Teams battling it out on Moonlighter, an actual satellite orbiting in space. Moonlighter isn't just any satellite; it's a groundbreaking hacking sandbox designed to push the boundaries of

cybersecurity and keep space safe for all of us.

The 2023 finalists included Kraitsat, mHACKeroni, SpaceBitsRUs, Poland Can Into Space, and jmp fs: [rcx].

And the winners? Drumroll, please!

First Place (\$50,000): mHACKeroni – A powerhouse collaboration of five Italian cyber research teams.

Second Place (\$30,000): Poland Can Into Space – Made up of Polish cyber researchers, along with talent from Ireland and Germany.

Third Place (\$20,000): jmp fs:[rcx] - A stellar mix of last year's Hack-A-Sat champs from the U.S. and the United Kingdom.

These teams blew us away with their mad cybersecurity skills, leaving hundreds of competitors in the cosmic dust.



	2020	2021	2022	2023
Qualifying Players	n/a	2,912	2,500	2,717
Teams	n/a	1,070	803	728
Countries Represented	n/a	75	71	n/a
Hours of Competition	30	30	30	30
Views (hackasat.com)	6,500	2,900	3,200	4,800
Views (youtube.com)	7,100	1,900	2,249	2,689

### AFRL/RI Internships & Co-Ops

The Air Force Research
Laboratory Information
Directorate (AFRL/RI) Internship
Program offers a prestigious
and remunerated opportunity
for students from freshmen
to PhD level, provided they
are enrolled in an accredited
college or university and eligible
for security clearance. This
program allows interns to work
alongside AFRL/RI researchers
on groundbreaking projects.

Interns engage in advanced research topics such as Data Efficient Machine Learning, Artificial Intelligence, the Internet of Things (IoT), and Quantum Information Sciences.

For those with strong programming skills and a solid mathematics background, the Co-Op Program is an excellent fit. While expertise in machine learning is not a prerequisite, the program focuses on developing and nurturing these skills.

Interns gain hands-on experience by implementing state-of-the-art machine learning algorithms, developing innovative techniques, and designing sophisticated experiments. Exceptional work may be recognized through publication in esteemed academic journals or conference presentations.

Participants will collaborate closely with experienced research scientists, gaining invaluable insights and refining their research skills. This program is dedicated to providing practical experience and fostering the growth of future research leaders.





	2020	2021	2022	2023
Applicants	720	445	421	650
AFOSR	n/a	n/a	n/a	5
VICEROY Research Interns	n/a	n/a	n/a	4
NEATAC Interns	n/a	n/a	3	7
RI Interns	25	28	20	18
Mentor Requests	36	42	60	54
Project Funded	36	33	27	31
Со-Ор	0	1	2	23
Female Interns	12	8	6	20
Returning Interns	35	6	17	13
Extensions	21	10	4	5





VICEROY Virtual Institutes for Cyber and Electromagnetic Spectrum Research & Employ

The VICEROY Scholar experience is all about that awesome mix of hitting the books and diving into real-world tech adventures. We caught up with some of the interns who rocked it this season, and guess what? It wasn't just the sunny days that stole their hearts; it was immersing themselves in the tech scene right here in the Mohawk Valley.

In addition to the incredible experiences in Rome, NY, our future technologists got an upclose look at the mind-blowing Boston Dynamics robot at West Point. It was like stepping into a sci-fi movie, with our crew getting hands-on with the cuttingedge world of robotics and automation.

Take Caleb Lowe, for example. Hailing from Montana State University, Caleb dove headfirst into the VICEROY Program in 2023, eager to explore the cybersecurity and programming realms. He summed up his experience perfectly: "I've never dabbled in cybersecurity or programming, and I saw this as a golden opportunity to learn something new, especially since it could be handy in my Air Force career journey."

This year, our program's footprint expanded significantly. We were thrilled to participate in HammerCon, the Military Cyber Professionals Association's national conference, for the first time. This event highlighted the importance of training and

education in cultivating the next generation of military cyber professionals. These individuals must be well-versed in a wide array of subjects, including computer science, engineering, cryptography, and strategic planning. Moreover, they must possess critical thinking, effective communication, and adaptability; essential skills for navigating the ever-changing cyber domain.

The diverse perspectives and expert insights at HammerCon underscored the vital role military cyber professionals play in protecting the United States' critical infrastructure. Our involvement in this conference aims to foster a greater understanding and dialogue, contributing to the continued evolution of our nation's cyber defense capabilities.

2023 brought seven new Virtual Institutes to our program: North Carolina, North Dakota, University of Alabama Huntsville, University of Texas San Antonio, Texas A&M University, Kansas University, and University of Colorado Colorado Springs.

Each institute brings unique strengths and expertise to the table, enhancing our collective capabilities and reach.

The Symposium at Mississippi State University was a milestone event where we rolled out new branding. VICEROY hosted our first virtual career fair and held our inaugural National Cyber Competition, with the winning team hailing from the University of Alabama Huntsville. This competition showcased the incredible talent and dedication of our participants, setting a high bar for future events.

Together, these experiences and expansions highlight the dynamic and enriching nature of the **VICEROY Program, preparing** our scholars for impactful careers in the ever-evolving field of cybersecurity.

## VICEROY

	2020	2021	2022	2023
Virtual Institutes	n/a	n/a	6	13
Colleges & universities	n/a	n/a	18	43
Applicants	n/a	n/a	95	135
Maven Graduates	n/a	n/a	22	56
DoD Job Sites	n/a	n/a	1	5
Envoy Students	n/a	n/a	n/a	11

### ACE Advanced Course in Engineering

Discover ACE: an extraordinary internship experience that immerses participants in the dynamic world of cyber operations while honing leadership skills. This program is open to undergraduates, ROTC Cadets, select activeduty personnel with relevant experience, and a few international officers and cadets.

Throughout the summer, ACE Interns collaborate with a dedicated group on cutting-edge research projects. These are high-intensity sessions designed to test innovative ideas and expand the boundaries of cybersecurity.

One of the program's unique aspects is the intern assignment to a mock nation-state. Every week, students work to advance their assigned nation's objectives in a simulated cyber conflict environment. From developing hacking strategies to operating drones, students will be defending and advancing their team's goals in a fast-paced, high-stakes scenario.

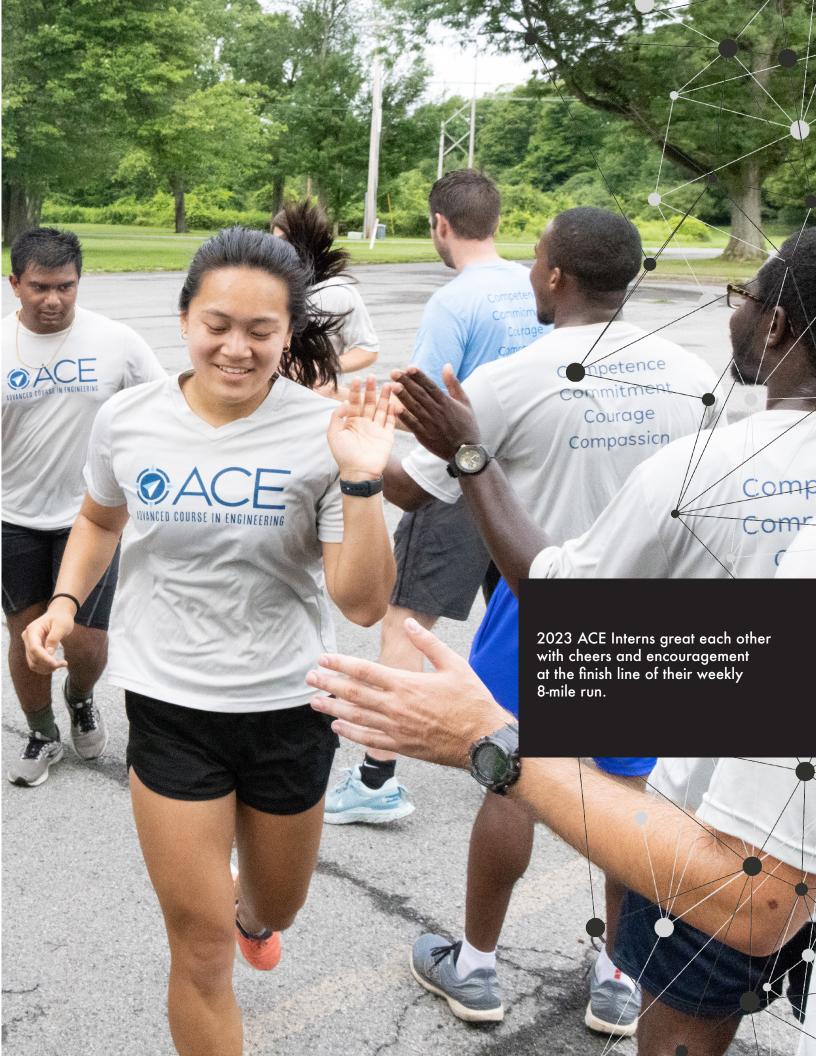
The program culminates in a capstone event—a comprehensive, multi-day cyber warfare simulation that brings everything together. The team will rely on collaboration and strategy to emerge victorious in this final challenge.

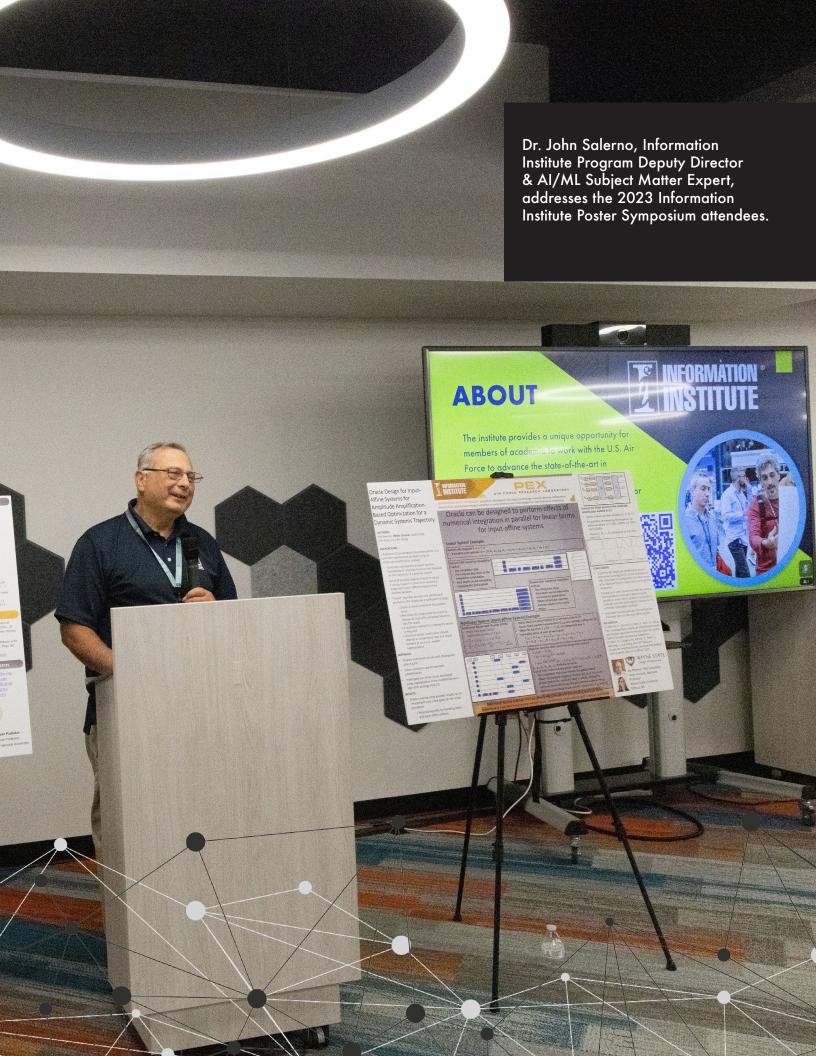
Physical fitness is also a key component of ACE. Each week, participants take on an 8-mile run through the Griffiss Technology and Business Park in Rome, NY. It's not just about staying fit, but also about building camaraderie and mental resilience.

As Lauren Fossel, Cybersecurity ACE Program Operations Analyst, explains: "At ACE, we emphasize holistic development, integrating cyber aptitude, leadership skills, and physical training. Our weekly 8-mile run is an opportunity for reflection, teamwork, and personal growth, allowing our future leaders to challenge themselves and connect as a unit."



	2020	2021	2022	2023
Countries Represented	n/a	3	3	3
Interns	n/a	40	41	46
Graduate Assistants	n/a	9	8	10
ROTC Detachments	n/a	11	19	17
Foreign Nationals	n/a	14	14	15
Hours of Instruction	n/a	128	128	128
8-Mile Runs	n/a	10	10	11
Papers	n/a	8	8	8
Guest Speakers	n/a	22	24	23





### Information Institute®

The Information Institute® (II) is an impressive consortium of over 90 colleges and universities across the United States. including 10 from New York State. This hub fosters collaboration between academia and the U.S. Air Force, advancing research in Command, Control, Communications, Computers, and Intelligence (C4I) and Cyber Technologies. These advancements benefit not only the Air Force and the Department of Defense but also businesses in the broader market.

The Information Institute® within this hub has several key objectives. It aims to create a collaborative research environment for member institutions, strengthen the relationship between the Air Force and these universities, and provide members with early access to exclusive events, summer programs, and project opportunities. The institute includes a diverse range of institutions, from renowned universities to community colleges.

A highlight of the II's activities is the Tech Talks, held twice a week. These sessions feature professors presenting their latest research findings. Additionally, the annual poster symposium in

August showcases the innovative work of these institutions to AFRL officials and the local community, celebrating the collective intellectual achievements of the hub.

Helen Durand, Associate Professor, Department of Chemical Engineering and Materials Science at Wayne State University and a longtime partner of the Information Institute® said it best, "Having the opportunity to work with AFRL has been highly impactful for my research program at Wayne State University. We have been able to forge strong collaborations with AFRL researchers and also to learn important quantum computing fundamentals from experts here that I was able to then bring back to my University to help train my students."



	2020	2021	2022	2023
Universities	n/a	n/a	26	38
Minority-Serving Institutions	n/a	n/a	10	10
Professors	n/a	n/a	52	57
Students	n/a	n/a	22	19
Fellows	n/a	n/a	14	11
Papers	n/a	n/a	72	104
Advisors	n/a	n/a	27	27
Research Topics	n/a	n/a	16	31
States of Universities	n/a	n/a	22	11

### HUSTLE Helping Upstate Science and Technology Leaders and Entrepreneurs

The HUSTLE Defense Accelerator is designed to empower tech startups pioneering advancements in artificial intelligence, machine learning, cybersecurity, quantum science, and uncrewed aircraft systems.

Through our comprehensive curriculum, participants gain invaluable knowledge and skills in business management, equipping them with the tools needed to thrive in today's competitive landscape.

Led by a team of seasoned professionals, and sponsored by AFRL/RI, New York State Division of Science, Technology and Innovation, and National Grid, our program offers tailored education and mentorship, providing insights into navigating government contracts, establishing strategic partnerships, and securing funding to fuel growth.

The 2023 HUSTLE journey began with 13 ambitious applicants, eventually narrowing down to nine teams, who relocated to the Mohawk Valley for the 8-12 week cohort. Immersing themselves and their companies into our ecosystem, they embarked on an exploration of innovation and dedication, divided into the Elevate and Accelerate tracks.

The outcomes of HUSTLE Demo
Day were impressive and
impactful: Accessible Automation
and Drone City each secured
\$50,000, while Paterson
Aerospace Systems Corp and
BosonQ Psi were awarded
\$100,000 each through the
Elevate track. The top honor
went to EMPEQ, which received
\$150,000 to advance their Fast
Site Survey research.

We are filled with anticipation for the future, confident that the tech industry's next wave of leaders is on the rise.

We commend Accessible
Automation, Drone City, BosonQ
Psi, EMPEQ, LLUME, Imagine
Aerial, Paterson Aerospace
Systems Corp., Kquika, and
Cyberspara for their exceptional
contributions and vision. These
startups exemplified the true
spirit of HUSTLE in the tech
world, making significant strides
from conceptualizing innovative
solutions to delving into the
industry's intricacies.



	2020	2021	2022	2023
Applicants	n/a	n/a	19	12
Teams	n/a	n/a	5	9
Mentors	n/a	n/a	7	4
Workshops	n/a	n/a	1	5
Practiced Pitches	n/a	n/a	4	8
Judges	n/a	n/a	5	5
Awarded	n/a	n/a	2	6



### **Coffee and Concepts**

In May 2023, we kicked off the Coffee and Concepts TO GO season at SUNY Poly in Utica, where we had the pleasure of hosting 42 attendees from various sectors, including government, industry, academia, and more.

Our second Coffee & Concepts event took place on May 18th at NYSTEC, with 23 participants joining us. June saw us at Quanterion and AIS, where we welcomed 35 attendees at each location. July and August
were dedicated
to connecting the
Innovare community
with Marquardt
and Le Moyne.
Notably, our visit



to Marquardt saw record-breaking attendance, with a remarkable 52 attendees who were given an insightful tour of Marquardt's facilities and had the opportunity to witness firsthand the innovative designs being produced there.

### **Future of Air & Space**

Future of Air & Space, presented by National Grid, highlighted cutting-edge advancements in the air and space industry in Upstate New York. This event brought together professionals from established companies, investors, dealmakers, and entrepreneurs to explore developments in uncrewed aerial systems, artificial intelligence, machine learning, edge and quantum computing, and their applications.

Attendees had the opportunity to network, gain insights into working with the Department of Defense, and discover synergies for long-term business relationships.

### **Summer Soiree**



The Griffiss Institute had an amazing time at the annual Innovare Summer Soiree, welcoming 250 guests to celebrate the achievements of our interns, staff, and partners. The event featured live music, entertainment, drinks from 16 Stone, and delicious food provided by Food Zone Filipino Food. Family-friendly fun was also provided by the Utica Children's Museum, and the event highlighted strong local business support through a basket raffle, showcasing the spirit of community collaboration.

### **Q4I Workshop**

At the 2023 Q4i International Workshop, Griffiss Institute hosted 156 professors, interns, professionals, and industry leaders. Nine countries were represented, including officials from Brazil, Nigeria, Taiwan, and South Korea.

The keynote speaker, Dr. Jamil Abo-Shaeer, CEO of Vector Atomic, gave great insight to the Quantum Technologies for the real world. Other discussions were led by twenty-six different speakers, including Dr. Noel Goddard, CEO of Qunnect; Dr. Yves Idzerda, Director of MonArk Quantum Foundry; Dr. Thomas Jennwein, Associate Professor at the University of Waterloo; and Ms. La Vida Cooper, Director of DC QNET.

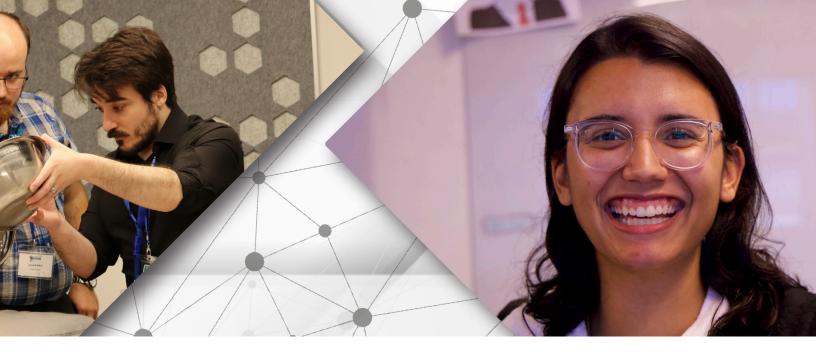




# We Elevate TALENT We Empower

We





# INNOVATION Enable EXPERIENCE



### The Innovare Alliance

The Griffiss Institute, renowned for its innovation in talent and technology, is teaming up with some of the best in academia, industry, and government, setting the stage for a series of groundbreaking collaborative ventures.

By formalizing these partnerships through the signing of Memorandums of Understanding, their aim is to synergize efforts in fostering opportunities within our communities, whether it's through exemplary education, cutting-edge research endeavors, or venturing into entrepreneurship.

Through this initiative, members will gain unprecedented access to experiential learning and venture development opportunities. The Innovare Alliance is committed to providing the resources, mentorships, and collaborative networks necessary to bring entrepreneurial visions to life.

Looking ahead, the Innovare Alliance will stand as a beacon of progress, collaboration, and innovation. Together, the Griffiss Institute, along with our existing partners — the Air Force Research Lab Information Directorate, Oneida County, City of Rome, State University of New York, CNY Defense Alliance, NYSTEC, Rochester Institute of Technology, Binghamton University — and now, Le Moyne College, we will accelerate the development of emerging technologies and foster an ecosystem that supports the growth and prosperity of our region.

### **Innovare Alliance Members**

























### **Building a Thriving Community**

















































The Griffiss Institute has cultivated a network of strategic community partnerships that bolster our mission.

A cornerstone of the Griffiss Institute's partnership strategy is its collaboration with educational institutions. By teaming up with national universities, local community colleges, and other schools, the GI helps advance research, provide internships, and facilitate technology transfer.

Our partnership with federal, state, and local governments, notably the Air Force Research Laboratory (AFRL) Information Directorate, is a testament to our commitment to national security and economic development. These collaborations not only enhance national security capabilities but also bring

substantial federal funding and projects to the local economy.

The GI's collaboration with both established companies and startups is central to driving economic growth and technological innovation. By providing resources such as office space, mentorship, and access to research facilities, we support the entrepreneurial ecosystem. These partnerships help transform innovative ideas into viable businesses, thereby contributing to a dynamic and diversified local economy.

Collaborations with nonprofit organizations focus on community development, workforce training, and educational programs. These partnerships aim to enhance the quality of life in the region by addressing local needs and preparing the workforce for hightech jobs. Initiatives supported by these collaborations range from skill development workshops to community engagement programs, all designed to build a stronger, more resilient community.

Our strategic community partnerships are pivotal in fostering a vibrant, innovative, and economically robust region. Through these connections, the Griffiss Institute continues to drive technological innovation, support economic development, enhance educational opportunities, and strengthen community bonds, ensuring a brighter future for the region.

## Catalyzing Innovation and National Security



The Griffiss Institute (GI) facilitates opportunities for funding to drive technological programs that support defense tech. We engage with policymakers and participate in legislative discussions to ensure that the interests of the research community and its partners are well-represented. Through these efforts, we have helped secure significant funding for various projects and initiatives, enabling sustained innovation and growth in defense technology.

Central New York's trajectory as a hub for innovation and technology received a significant boost with U.S. Senate Majority Leader Chuck Schumer and U.S. Senator Kirsten Gillibrand securing \$3 million in funding for the Griffiss Institute and

CNY Defense Alliance in Rome. This funding will support the construction of a new Smart-X Internet of Things collaborative lab, providing a platform for vendors and developers to experiment with smart technologies.

Gillibrand, alongside Lieutenant Governor Antonio Delgado and local leaders, announced the funding, emphasizing its role in nurturing the next generation of tech leaders in the region.

Griffiss Institute CEO Heather Hage highlighted the impact on both the future of central New York and local students, noting opportunities for defense contractors, commercial companies, and students. Gillibrand further emphasized

the potential for job growth in the Mohawk Valley and attracting entrepreneurs and organizations interested in SMART technology development. Delgado expressed excitement for the future, applauding the remarkable innovations already emerging from the Griffiss Institute. With a focus on impacting local, state, and national levels, the Griffiss Institute aims to leverage its technology innovations and the new lab's development for broader societal benefit.

The Griffiss Institute extends heartfelt appreciation to our local, state, and federal government leaders for their unwavering support in realizing the mission and vision of our institute. Your dedication and partnership have been instrumental in driving forward our initiatives and fostering innovation in our community. With your continued support, we are empowered to advance technology, cultivate talent, and contribute to the growth and prosperity of our region. Thank you for your ongoing commitment to the Griffiss Institute and the communities we serve.

### Our Commitment to Collaborative Local Engagement

The Griffiss Institute (GI) plays a pivotal role in fostering community engagement through a variety of local initiatives. As a hub of innovation and economic development, we actively collaborate with local organizations, educational institutions, and businesses to support and uplift the community.

One of the primary focuses of the GI's community engagement efforts is enhancing educational opportunities. The institute partners with local schools and colleges to provide students with hands-on learning experiences and access to advanced technologies. These collaborations include internship programs, workshops, and mentorship opportunities that help students develop crucial skills for future careers in high-tech industries.

The Griffiss Institute is a key supporter of local entrepreneurs and small businesses. Through initiatives like the Innovare Advancement Center, the institute offers resources such as office space, research facilities, and expert mentorship to startups and emerging companies. These efforts stimulate local economic



growth by fostering innovation and helping new businesses thrive in the competitive market.

The GI is deeply involved in organizing and sponsoring community events that bring together residents, businesses, and organizations. These events often focus on technology, education, and workforce development, providing platforms for networking, learning, and collaboration. Examples include our HUSTLE Demo Day, Women Investing in Women, STEM camps, and public lectures that inspire and educate community members of all ages.



### **IAC Wins 2023 Best in Region**



The Innovare Advancement
Center, managed by Griffiss
Institute earned the 2023 Best
in Region award from the
Federal Laboratory Consortium
for Technology Transfer
(FLC), underscoring its role in
advancing national security,
fostering economic growth,
and driving innovation in the
Northeast.

Located in Rome, New York, Innovare is a premier innovation hub for government, academia, and industry, focusing on cutting-edge research in artificial intelligence, machine learning, cybersecurity, quantum sciences, and small uncrewed aerial systems. Its achievements are rooted in strategic partnerships with organizations such as the Air Force Research Laboratory Information Directorate (AFRL/RI) and the strong support of Oneida County, which continues to champion regional growth and technological advancement.

Guided by a Five-Year
Strategy for open innovation,
Innovare aims to strengthen
global partnerships, launch
entrepreneurial ventures, and
advance intellectual leadership.
With state-of-the-art facilities and
collaborative spaces, Innovare
empowers researchers and
entrepreneurs to address critical
challenges, positioning the
region as a leader in the global
innovation ecosystem.









