

Who We Are

The CUNY-ASRC Sensor Center for Advanced Technology (CAT) provides matching funds for collaborative research partnerships between New York State companies and the City University of New York (CUNY). The program supports early-stage technology development on the pathway from the lab to the marketplace.

Community Announcements!

Our community is growing! Let us know if you have an upcoming event/opportunity to share!



IndieBio Class 8

Applications for SOSV's IndieBio Class 8 is now open! **Apply by January 19th, 2024!**

Previous cohorts include CAT companies [Frezent Biological Solutions](#) and [Vader Nanotech!](#)



VentureWell E-Team Program

Applications are now open for the E-Team Program, part of the VentureWell Accelerator, which supports student ventures through up to \$25K in grant funding and entrepreneurial support. **Apply by January 31st, 2024!**

Job Opportunities:

ILLUMINATIONSPACE

Civic Science Fellow

The CUNY ASRC IlluminationSpace Hub is hiring a 18-month, full-time fellow to help expand the collective space for science communications, outreach and education at CUNY.

CAT Program Admin Intern

We are looking for a student intern interested in gaining entrepreneurial programming experience and exposure to the ecosystem! Details Here



Message from the Team

Ring in the New Year with our CAT and join us in reflecting on a Fall semester overflowing with reasons to celebrate. A few major highlights were our first-of-its-kind [STEM PhD Entrepreneurship and Tech Transfer Course](#) at CUNY wrapped its 2nd class by awarding student final pitches with **\$15,000** for continuing R&D in their Professors' labs from generous support funded by our [VentureWell](#) grant. 9 CUNY Grad students representing CCNY, Hunter, Lehman, & Brooklyn Colleges took first steps in their entrepreneurial journeys testing their academic research for potential real-world applications ranging from novel cancer drug therapeutics to STEM education microbiome test kits. Travelling upstate, the CAT continued its mission building



career pathways for CUNY students, taking a group of colleagues and students from [Queensborough Community College](#), [City Tech](#), [CCNY](#), and [ASRC](#) to witness first-hand the microelectronics jobs slated for expansion at [Global Foundries](#) US headquarters – impressed by many football-sized fields of high tech instruments and the fact that people will remain essential to maintain their function. Finally, back in **West Harlem's Innovation Triangle**, we take pride in the growing

hub of technology expertise, resources, and infrastructure developments (ASRC/CCNY, Columbia U, [Taystee Lab Building](#)) where we jointly organized multiple networking events, most recently this Fall's [Innovating Advanced Materials](#). With enough thanks to stuff a few stockings, certainly not last of which would thank *You*, our colleagues and community members, for joining with us on this journey – 2024 is filled with promise to elevate CUNY-ASRC's status in NYC's STEM tech innovation ecosystem.



-Tavis Ezell
Director, Business Development

Company Stories

Next Generation Quantum (NGQ) Corp.



This summer, Next Generation Quantum Corp's Shaina Raklyar and Dr. German Kolmakov were awarded the **Air Force Research Fellowship of the U.S. Air Force Information Directorate**. Shaina and German spent their summer doing research at the Colonel Timothy J. Lawrence Quantum Laboratory, a new quantum science lab at Innovare in Rome, NY. Working closely with the Quantum Lab research team, Shaina and German devised new approaches that enable scalable quantum computing for big data analyses as well as resilient information sharing. This collaboration enhances the existing Education Partnership Agreement between CUNY and the Air Force Information Directorate that was established earlier this year. The team's work at the CUNY Advanced Science



Shaina Raklyar is the Co-Founder and CEO of NGQ Corp., and is currently a 3rd year PhD student in CUNY's Physics program with a concentration in Photonics. Dr. German Kolmakov is the CTO of NGQ and Professor of Physics at CUNY City Tech.



Nanofabrication Facility Staff fabricating microfluidic devices for the Rojas lab at NYU. This group aims to use the devices to grow and observe fungus mycelia, or root-like structures, at different resolutions ultimately understanding how microbes grow and survive to develop new strategies to treat microbial-borne diseases. With this opportunity, Abigail not only contributed to real-world research, but was exposed to cutting-edge instrumentation and nano-manufacturing techniques with uses from Biology to Microelectronics.



News/Updates

The CAT is expanding its internship funding opportunities beyond its summer partnership with LifeSci NYC/EDC to include the ASRC's Core Facilities. This Fall, Avigayil (Abigail) Berkowitz, an undergraduate student in Mechanical Engineering at CCNY, took on a challenging internship project managed by