

Who We Are

The CUNY-ASRC 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 workforce development and early-stage technology development on the pathway from the lab to the marketplace.

Community Announcements!



VentureWell E-Team Program

\$25,000 in grants, entrepreneurial training, mentorship, and networking opportunities! Apply by October 2, 2024!



2024 NYS Innovation Summit

We're going to be at this year's NYSTAR Innovation Summit up in Syracuse! See you there!



Nanofabrication Research Symposium

The ASRC Nanofab Facility is thrilled to announce the first-ever Research Showcase Day, bringing shared-user cleanroom community together for a day of connection, collaboration, and learning.

CAT Community gets 50% off registration using code: ASRCCAT

Students and Nanofab users, submit an abstract for a full waiver!



ASRC's 10th Anniversary

Together with CUNY's Chancellor, the CAT will be celebrating ASRC's 10th Birthday - we're hosting an industry panel featuring companies like [Volastra](#), [Estée Lauder](#), [NextGen Actives](#), [Lime Therapeutics](#), and [Vyir!](#)

Come celebrate with us!



Message from the Team

Take a journey with the CAT as we wrap up another eventful summer of student training programs and industry collaborations. Join our daily ASRC commute here in a [new video highlighting the West Harlem Innovation Triangle](#). Among many achievements, we take pride today in our efforts to inspire and support the next generation of CUNY scientists and industry leaders. For instance, the prestigious [Activate Fellowship program](#) has now awarded its **4th CUNY grad a 2-year Fellowship** to fund their R&D efforts (with CAT matching \$ funds) to further develop potentially ground-breaking technologies tackling Climate Change and other Global Challenges (read more about James, Ilse, Sonia, and Jiye [here](#)). These startups and others are now reaping the benefits of a multi-year effort by the CAT to create and fund \$ CUNY student STEM training opportunities through the core facilities at ASRC (7 students) and in partnerships like that with NYCEDC/LifeSci NYC (57 students) making them viable hires with hands-on lab experience. We continue to pursue building a pathway for these students into jobs in industry. Large-scale efforts have been made in collaboration with Columbia U., SUNY-FIT, and Genspace to establish an upcoming **Materials Innovation Hub** in the neighborhood (more exciting news on this coming soon!)

-Tavis Ezell

Director, Business Development

Company Highlights

PathMaker Neurosystems

President and CEO, Nader Yaghoubi, M.D., Ph.D., was



introduced to **College of Staten Island's (CSI) Prof. Zaghoulou Ahmed** for his scientific expertise in neuromodulation and focus on bioelectronics. Now nearing a decade of work together, the company's core technology has been built around this partnership leading to successful funding awards, international prizes, and pre-seed investment (NIH '21), most recently with a [DoD-funded \\$2.16M award](#) (June '24) to conduct a second and larger clinical trial to validate its experimental, non-invasive multi-site direct current stimulation (multi-site DCS) device – in people with amyotrophic lateral sclerosis (ALS). To get to this stage, significant research milestones in the last 2 years were reached in Prof. Ahmed's lab studying SOD1 (relevant to 3% of ALS patients) and TDP-43 protein aggregation (relevant to 97% of ALS patients) in the spinal cord and brain of transgenic ALS mice to validate the therapeutic effects of their technology – the **CAT matched this funding**. In addition to the recent DoD award, Prof Ahmed's post-doc presented exciting findings at the recent ALS NEXUS conference around specific mechanisms that activate the TDP-43 protein degradation pathway.

Workforce Development

As the CAT continues to ramp up our workforce development efforts, we remain committed to building career pathways for CUNY students. In [our previous newsletter](#), we highlighted our visit to the GlobalFoundries headquarters in Malta, NY, where we learned about the growing semiconductor industry and its workforce demand. Following this successful trip, the CAT hosted a series of workshops with our partnering CUNY community colleges introducing students to opportunities at GF. These efforts culminated in 4 CUNY students completing technician internships at GF this summer. We were delighted to hear about the incredible experiences our students had during their internships in Malta. Read what they shared with us below!

"I had an amazing time learning what it was really like to experience engineering in the corporate setting, and I worked on many different and fascinating projects. GlobalFoundries has really demonstrated that they are looking to grow and achieve great things through their workforce, and I could see myself being with the company full time to begin my career once I complete the necessary education pathway. I hope my experience there blossoms into greater opportunities for myself, the company, and future CUNY students."

- **Kendall Claggett, Electrical Engineering (A.S.), LaGuardia Community College**

"Overall, I couldn't have asked for a better experience. The amount of knowledge I gained from working with my crew was invaluable. I've learned a lot more about the semiconductor industry than I could've hoped for. Through the good and the bad I enjoyed it all and look forward to returning next summer!"

- **Jamie Labriel, Computer Engineer Tech (BTECH), New York City College of Technology**

We thank our partners from LaGuardia Community College, Queensborough Community College, and City Tech for this year's effort. We're bringing GF to CCNY Career Fair this Fall (Oct 10th) to expand this to more CUNY colleges.



CUNY students at the end of the summer GF Intern Poster Session. From left to right: Keven Cruz (City Tech), Jamie Labriel (City Tech), Eric Adams (GF), Ricardo Madho (QCC), and Kendall Claggett (LaGCC)