



VIRGINIA ALLIANCE FOR  
SEMICONDUCTOR TECHNOLOGY

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# SEMICONDUCTOR

# TECHNOLOGY

## FOUNDING MEMBERS



## ACADEMIC AFFILIATES

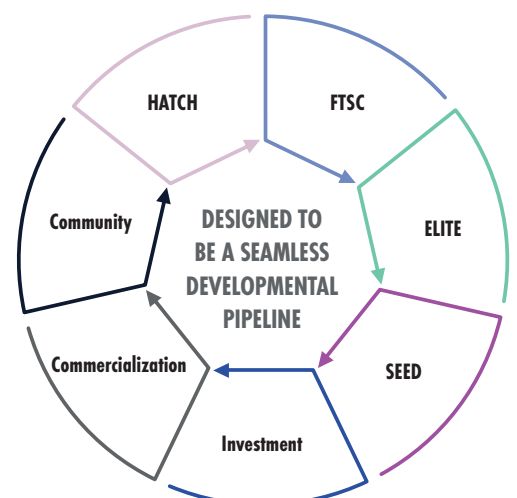


## POWERING VIRGINIA'S SEMICONDUCTOR TALENT AND TECHNOLOGY, TOGETHER.

### Virginia: A Collaborative Engine for U.S. Semiconductor Growth

The United States has made historic investments to restore its leadership in semiconductor manufacturing—boosting job creation, spurring innovation, and strengthening national security. In response to this national momentum, the Virginia Alliance for Semiconductor Technology (VAST) was established to position Virginia as a front-runner in this transformation, aligning the Commonwealth's assets with the country's semiconductor resurgence.

Headquartered in Northern Virginia, VAST is a first-of-its-kind statewide initiative that unites leading universities, advanced cleanroom facilities, workforce training programs, and industry partners. Together, we are building the future of semiconductors—through talent development, cutting-edge technology, and shared infrastructure.



# VAST AT A GLANCE

## Seamless Access to Statewide Innovation Infrastructure

The Virtual Fabrication Access Bridge (VFAB) connects users to over 170 pieces of advanced semiconductor equipment across 7 campuses and more than 65,000 sq. ft. of shared cleanrooms and R&D labs. VFAB enables faster prototyping, easier startup entry, and broader research collaboration across universities and industry.

## Rapid Non-degree Talent Development at Scale

The Fast Track to Semiconductor Careers (FTSC) Initiative has built the capacity of 30,000 hours of training and education, a non-traditional degree, certified-based, through hybrid, 10-week certificates in areas like CHIP Fabrication and CHIP Packaging. FTSC is ready to prepare hundreds of Virginians annually—including veterans and adult learners—for high-demand careers.

## Catalyzing Research & Workforce Innovation

The ELITE Initiative aims at accelerating research in clusters like Digital Microelectronics, Photonics, Quantum Technology, Bridging Biology & Nanotech, Internet of Things, and Heterogeneous Integration, while launching new internships, fellowships, and Centers of Excellence across VAST universities.

## Startups to Scaleups: A Fertile Innovation Ecosystem

The Start-up and Entrepreneurship Ecosystem Development (SEED) initiative will target Virginia's #1 national ranking for business and #8 for venture capital. SEED can unlock seamless access to VFAB tools, training, and strategic alliances (VIPC, Virginia Invests) to support rapid prototyping and business formation in semiconductors, quantum, and biomedical tech.

## Building Pathways from High School to Industry

The High School Advanced Teaching in Chips (HATCH) initiative will create early access to semiconductor technology for underserved communities through facility modernization, scholarships, teacher training, and student summer camps. HATCH builds a more diverse and inclusive talent pipeline from day one.

## NUMBERS THAT TELL THE STORY



**7 ACADEMIC AFFILIATES**  
with a pathway to 15+ in future phases



**>35,000 SQ. FT.**  
of shared semiconductor fabrication labs



**>30,000 SQ. FT.**  
of packaging and metrology facilities



**170+ ADVANCED TOOLS**  
across 7 universities connected through VFAB



**200+ FACULTY RESEARCH GROUPS**  
engaged across the network



**600+ UNIVERSITY STUDENTS**  
trained annually



**300 VETERANS & ADULT LEARNERS**  
to be upskilled annually through FTSC



**10,000+ STARTUPS**  
launched in Virginia in the last 2 years



**\$100M+ IN EARLY-STAGE CAPITAL**  
being invested via Virginia Invests



**VIRGINIA ALLIANCE FOR  
SEMICONDUCTOR TECHNOLOGY**

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