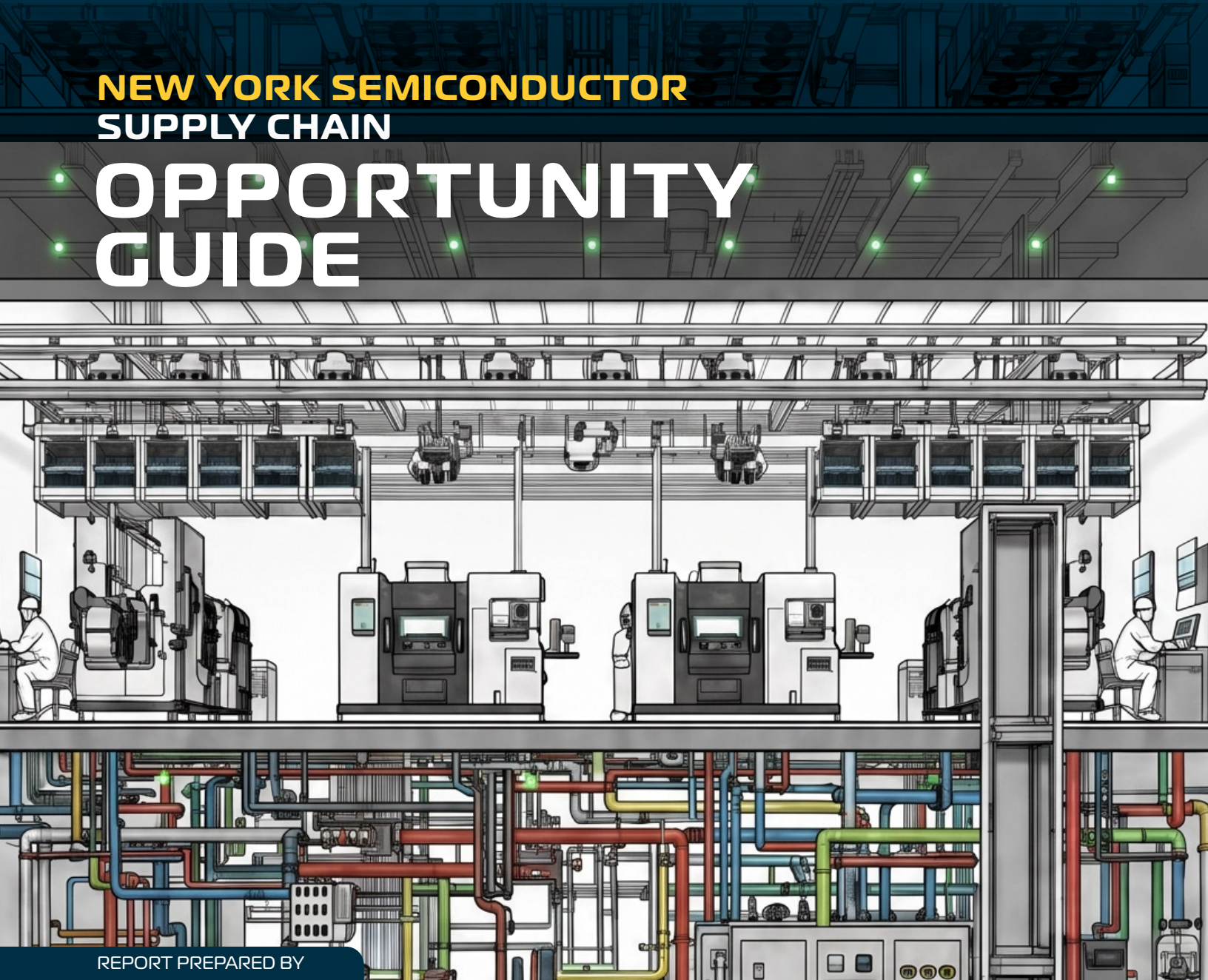


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NY SMART
I - CORRIDOR

**NEW YORK SEMICONDUCTOR
SUPPLY CHAIN**

**OPPORTUNITY
GUIDE**



REPORT PREPARED BY



University at Buffalo

Center for Supply
Chain Analytics

School of Management

IN COLLABORATION WITH RM NEILSON & ASSOCIATES INC.

ACKNOWLEDGMENTS

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- **University at Buffalo Center for Supply Chain Analytics**
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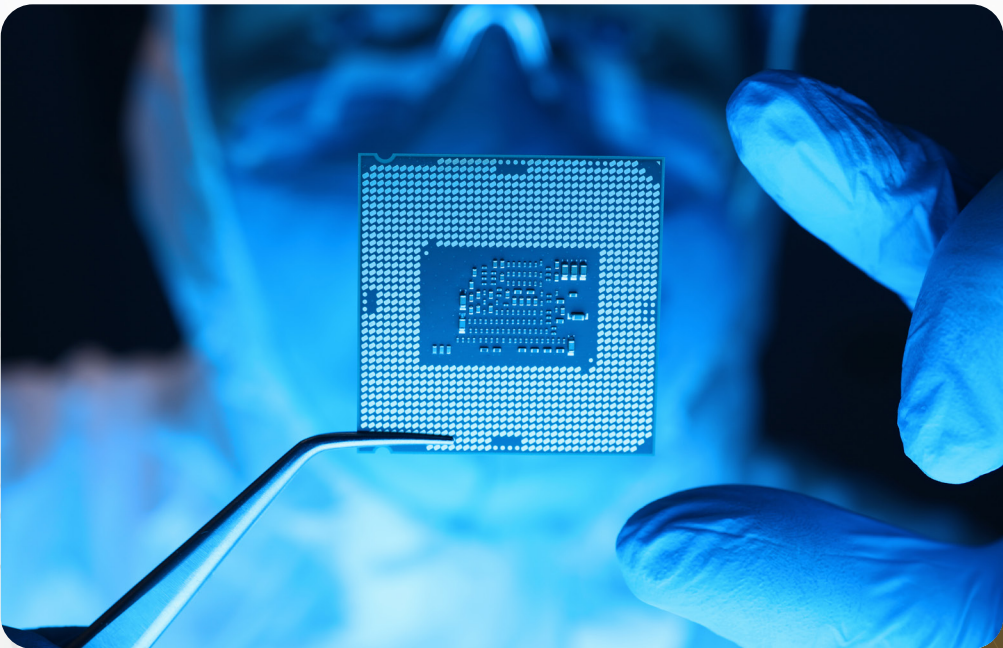
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GROWING NEW YORK STATE'S SEMICONDUCTOR SUPPLY CHAIN: THE OPPORTUNITY

Semiconductor fabrication (fab) facility capacity and the semiconductor supply chain continue to grow throughout the United States as industry, academia and governments invest in capital, research and development and infrastructure. As of January 2026, over \$645 billion dollars in private investments in the U.S. semiconductor supply chain have been announced, supporting more than 525,000 jobs across the nation.¹

Worldwide semiconductor sales have grown rapidly in recent years, demonstrating 61.8% year-to-year growth, as of February 2026. In dollars, sales have increased from \$630.5 billion in 2024 to an estimated \$1 trillion by the end of 2026, achieving this milestone four years earlier than previously anticipated.^{2, 3, 4}

Since 2020, more than \$131 billion in New York State semiconductor investments have been announced for new facility development and expansion by AMD, Corning, Edwards Vacuum, GlobalFoundries, Menlo Microsystems, Micron Technology, NY Creates, Onsemi, TTM Technologies and Wolfspeed.¹

In parallel, New York State Gov. Kathy Hochul launched the \$10 billion Green CHIPS program, and established the Governor's Office of Semiconductor Expansion, Management, and Integration (GO-SEMI) within Empire State Development, equipping the state with resources needed to expand and scale a globally competitive semiconductor ecosystem.⁵



BY 2034,
ONE IN FOUR
AMERICAN-MADE CHIPS
WILL BE MANUFACTURED
WITHIN
350 MILES
OF THE NY SMART
I-CORRIDOR REGION.⁶

¹ Semiconductor Industry Association. (2026). Semiconductor Supply Chain Investments. <https://www.semiconductors.org/chip-supply-chain-investments>

² Semiconductor Industry Association. (2025). 2025 factbook. <https://www.semiconductors.org/wp-content/uploads/2025/05/2025-SIA-Factbook-FINAL-1.pdf>

³ Semiconductor Industry Association. (2026). Global Semiconductor Sales Increase Substantially in February. <https://www.semiconductors.org/global-semiconductor-sales-increase-substantially-in-february/>

⁴ McKinsey. (2024). Exploring new regions: The greenfield opportunity in semiconductors. <https://www.mckinsey.com/industries/semiconductors/our-insights/exploring-new-regions-the-greenfield-opportunity-in-semiconductors>

⁵ New York State. (2023). Governor Hochul announces GO SEMI: the Governor's Office of Semiconductor Expansion, Management, and Integration <https://www.governor.ny.gov/news/governor-hochul-announces-go-semi-governors-office-semiconductor-expansion-management-and>

⁶ Empire State Development. (n.d.). Semiconductors: America's semiconductor comeback begins in NYS. <https://esd.ny.gov/industries/semiconductors>

To sustain and accelerate investment in New York's rapidly growing semiconductor supply chain, entities across the state are expanding their portfolio of incentives aimed at advancing research, fostering innovation and supporting industry growth.⁷

Targeted federal investments, such as the \$40 million NY SMART I-Corridor Tech Hub bring even greater coordination of resources.⁸ Funded by the Economic Development Administration in 2024, the Tech Hub

initiative is supported by more than 100 partners across the Buffalo, Rochester and Syracuse region, uniting industry, higher education, economic development groups and community-based organizations to redefine the future of technology. See page 18 to learn more about the Tech Hub's component projects and offerings.

INFRASTRUCTURE DEVELOPMENT PROJECTS

- **\$10B New York State Green CHIPS Incentive Package⁹**

Aimed at large-scale semiconductor manufacturers investing \$3 billion or more, this suite of tax credits and discounted utility delivery rates is designed to attract major investments and promote sustainable manufacturing practices.

- **\$400M in site development funds through Focused Attraction of Shovel-Ready Tracts New York (FAST NY)¹⁰**

Grants for pre-development and infrastructure investments to create shovel-ready sites.

- **\$300M Promote Opportunity with Electric Readiness for Underdeveloped Properties (POWER UP) program**

Capital grants to improve power-readiness of existing sites with awards to utilities, industrial development agencies, municipalities, local development corporations and municipally designated economic development organizations.

FINANCIAL INCENTIVES: TAX CREDITS, GRANTS AND TECHNICAL ASSISTANCE

- **\$10.9M Semiconductor Growth Access Program (SGAP)¹¹**

Funds can be leveraged by small businesses growing or pivoting into the semiconductor supply chain for legal, accounting, insurance and financial services.

- **\$2.5M in Tech Hub supply chain technical assistance and incentive funds**

The Supply Chain Activation Network (SCAN) project supports growth and expansion of firms, leveraging capabilities of the region's economic development organizations and manufacturing extension partnership centers.

- **\$7M in Tech Hub commercialization funds**

The Commercialization and Collaboration Center project offers Tech Hub Resources and Innovation Vouchers for Enterprises (THRIVE) grants to support commercialization of new technologies.

- **\$6M in Tech Hub workforce grants**

The Semiconductor Talent and Employer Partnership, Upstate New York (STEP UP) project provides grants up to \$250K enabling training providers to pilot or launch innovative approaches to workforce development within microelectronics and related value chain industries in the SMART I-Corridor.

- **Billions in tax credits available through the Excelsior Jobs Program¹²**

Five fully refundable tax credits can be claimed over a 10-year period, supporting job creation, qualified investment, research and development, real property tax and childcare service programs.

⁷ GO-SEMI. (2026). 2026 Annual Report. GO-SEMI: The Semiconductor Future of New York. <https://esd.ny.gov/sites/default/files/media/document/Impact-Statement-GO-SEMI-FINAL.pdf>

⁸ CenterState CEO. (2024). NY SMART I-Corridor Is the First Tech Hub Award Winner in the Nation. <https://centerstateceo.com/news/ny-smart-i-corridor-first-tech-hub-award-winner-nation>

⁹ Empire State Development. (n.d.). New York State's Green CHIPS program. <https://esd.ny.gov/green-chips>

¹⁰ Empire State Development. (n.d.). FAST NY Shovel-ready grant program. <https://esd.ny.gov/fast-ny#overview>

¹¹ Reinhardt, E. (2024). NY awarded \$9.4m to help small businesses tap into the semiconductor supply chain. <https://www.cnybj.com/new-york-awarded-9-4-million-to-help-small-businesses-tap-into-the-semiconductor-supply-chain/>

¹² Empire State Development. (n.d.) Excelsior Jobs Program. <https://esd.ny.gov/excelsior-jobs-program#overview>

RESEARCH AND DEVELOPMENT CAPACITY

- **\$10B invested in NY Creates High-Numerical Aperture Extreme Ultraviolet (EUV) center¹³**
This public-private resource can be engaged for research, development and commercialization of semiconductor technologies.
- **Millions invested in university R&D and facility development**
 - a. **University at Buffalo** Davis Hall Electrical Engineering Cleanroom; Center for Advanced Semiconductor Technologies; Sustainable Manufacturing and Advanced Robotic Technologies – SMART Center of Excellence; Center for Computational Research; Department of Materials Design and Innovation; and Center of Excellence in Materials Informatics¹⁴
 - b. **Binghamton University** Small Scale Systems Integration and Packaging Center: A New York State Center of Excellence¹⁵
 - c. **Cornell University** NanoScale Science and Technology Facility; Superior Energy-efficient Materials and Devices (SUPREME) Center; Center for Materials Research; and High Energy Synchrotron Source; and Platform for the Accelerated Realization, Analysis, and Discovery of Interface Materials¹⁶
 - d. **SUNY Polytechnic** Semiconductor Processing Lab¹⁷
 - e. **University of Rochester** Integrated Nanosystems Center¹⁸
 - f. **Rochester Institute of Technology** Semiconductor Nanofabrication Laboratory; and Center for Electronics Manufacturing and Assembly¹⁹
 - g. **Syracuse University** Center for Advanced Semiconductor Manufacturing²⁰

\$550M WORKFORCE INVESTMENT²¹

- **\$200M investment in One Network for Regional Advanced Manufacturing Partnerships (ON-RAMP) program²²**
New employer-driven training programs will add to the state's robust existing workforce pipelines.
- **Hundreds of degree, certificate and micro-credential programs²³**
From PTECH programs to community colleges and top-tier universities across the state, New York is preparing qualified candidates eager for new employment opportunities.

¹³ NIST. (2024). Fact sheet: NY semiconductor industry. <https://www.nist.gov/system/files/documents/2024/07/18/07102024%20NY%20Fact%20Sheet.pdf#:~:text=%2410%20billion%20public%20private%20investment,%E2%96%AA%E2%96%AA%E2%96%AA%20July%202024>

¹⁴ University at Buffalo Centers and Facilities: <https://www.buffalo.edu/research/research-expertise/expertise-in-semicon.html>; <https://engineering.buffalo.edu/materials-design-innovation.html>; <https://www.buffalo.edu/partnerships/about/centers-facilities-equipment/cmi.html>

¹⁵ S3IP. (2025). S3IP: A NYS Center of Excellence at Binghamton University. <https://www.binghamton.edu/s3ip/index.html>

¹⁶ Cornell University Centers and Resources: <https://www.cnf.cornell.edu/equipment>; <https://supreme.cornell.edu/>; <https://www.ccmr.cornell.edu/facilities>; <https://www.chess.cornell.edu/facilities>; <https://sites.coecis.cornell.edu/paradim/about/about-facility/>

¹⁷ SUNY. (2024). SUNY Chancellor King joins SUNY Polytechnic Institute leadership and researchers to celebrate expansion of premier Semiconductor Processing and Training Center. <https://www.suny.edu/suny-news/press-releases/7-24/7-11-24/sptc.html>

¹⁸ University of Rochester Integrated Nanosystems Center: <https://www.rochester.edu/urnano/>

¹⁹ Rochester Institute of Technology Centers and Facilities: <https://www.rit.edu/nanofab/>; <https://www.rit.edu/cema/>

²⁰ Syracuse University. (2024). Syracuse University, Onondaga County Make Combined \$20M Investment to Launch the Syracuse University Center for Advanced Semiconductor Manufacturing <https://news.syr.edu/blog/2024/05/16/syracuse-university-onondaga-county-make-combined-20m-investment-to-launch-the-syracuse-university-center-for-advanced-semiconductor-manufacturing/>

²¹ Empire State Development. (n.d.). Semiconductors. <https://esd.ny.gov/industries/semiconductors>

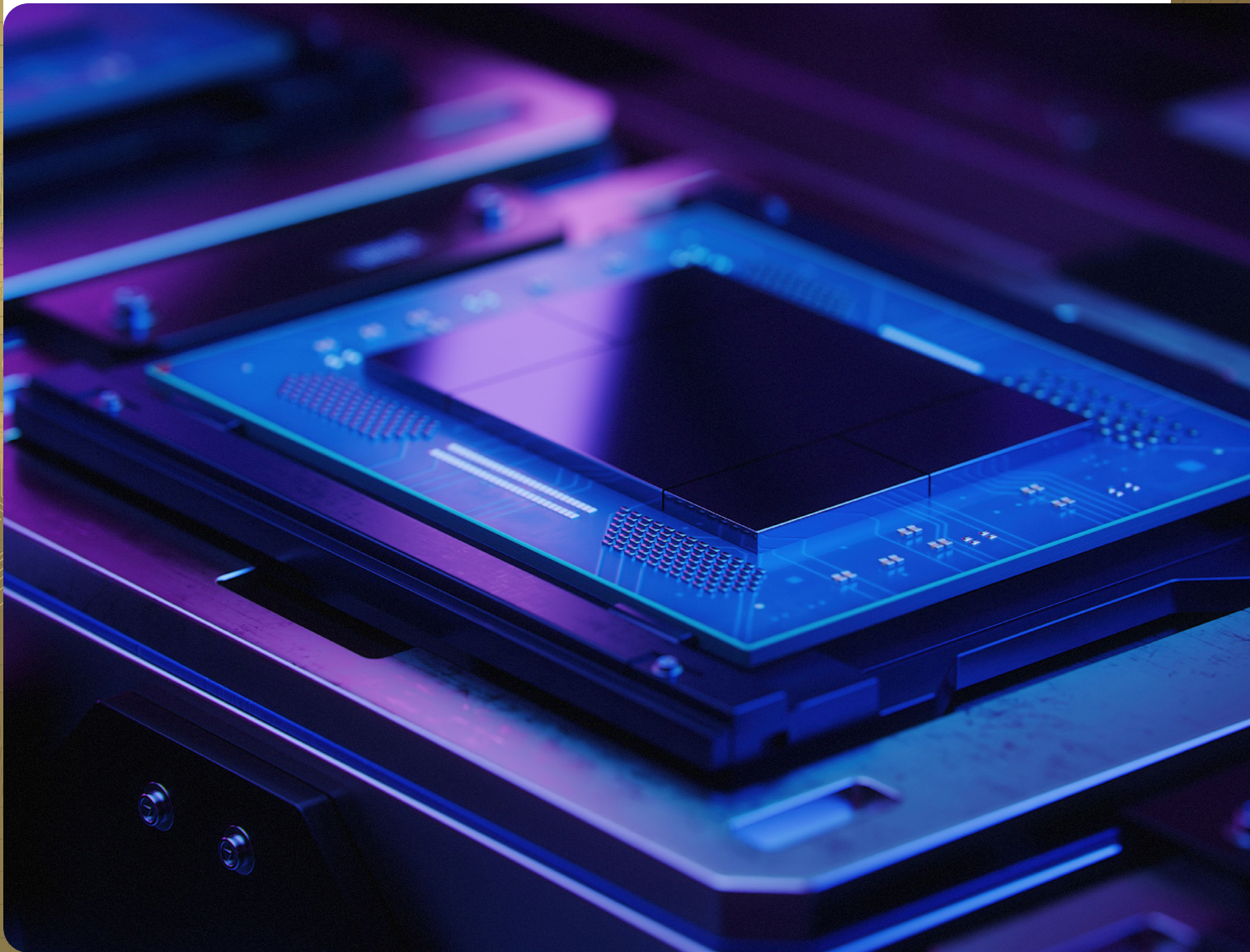
²² NYS. (2025). Jobs of the future: Governor Hochul announces three new locations selected for \$200 Million ON-RAMP program. <https://www.governor.ny.gov/news/jobs-future-governor-hochul-announces-three-new-locations-selected-200-million-ramp-program>

²³ SUNY. (2025). Academic programs. <https://www.suny.edu/attend/find-a-suny-program/>

THE SEMICONDUCTOR SUPPLY CHAIN ECOSYSTEM

Operation of a fab requires coordination with numerous suppliers of raw materials, equipment, consumables and services. Each fab maintains **a comprehensive network of suppliers** to meet their day-to-day needs. This guide attempts to demystify fab operations and the associated suppliers using diagrammatic maps and a framework of five fab zones that describe the physical environments inside a fab.

Firms can consider how their capabilities map to various supply chain tiers and fab zones to identify opportunities and requirements to participate in this growing industry.



SUPPLY CHAIN TIERS

This city view depicts the fab as the central entity, surrounded by **Tier 1** manufacturing and distribution firms (direct suppliers), **Tier 2** firms (suppliers to Tier 1s), and **Tier 3** firms (suppliers to Tier 2s). Supply chain opportunities for involvement in the semiconductor industry extend far beyond these boundaries, from the suppliers of nuts and bolts used in subassemblies to the producers of Teflon-coated pipes needed by chemical manufacturers and beyond.

KEY

- A Chemical and gas**
 - A1. Chemical distributors
 - A2. Feedstock providers

- B Tool and equipment manufacturers**
 - B1. Optics manufacturers
 - B2. Vacuum pump producers

- C Tool and equipment component and service providers**

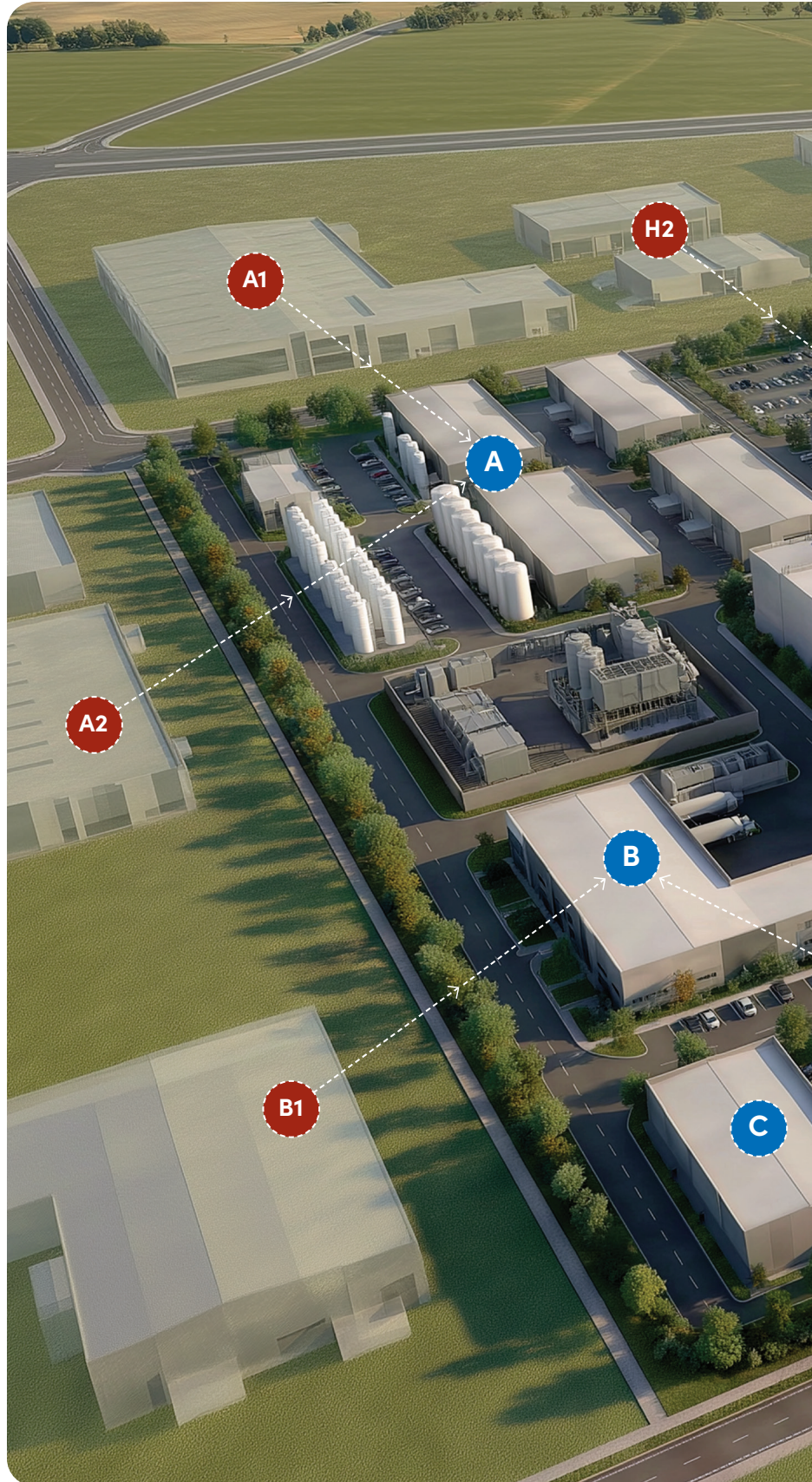
- D Substrate production**

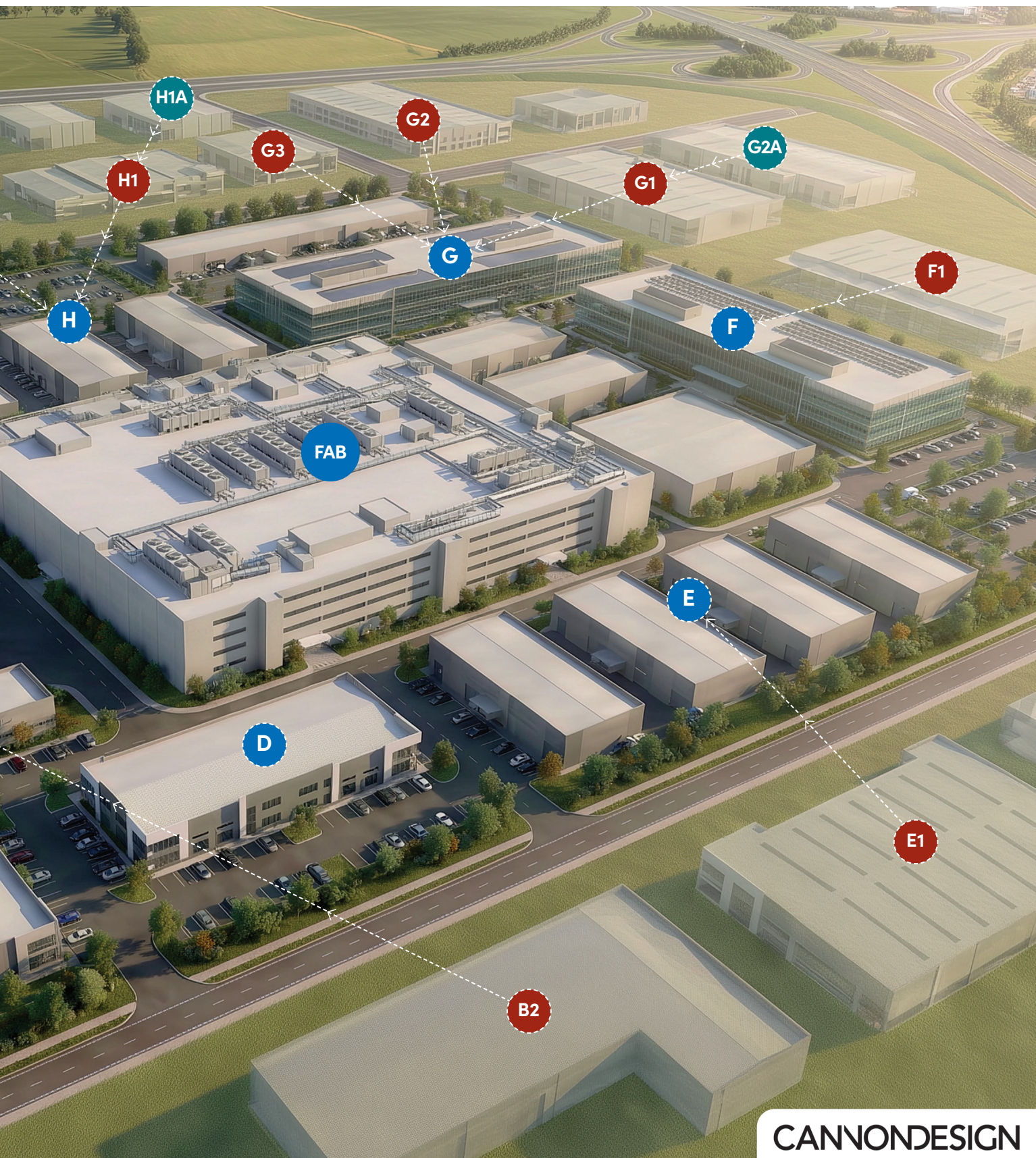
- E Consumable distributor**
 - E1. Consumable manufacturers

- F Logistics**
 - F1. Fleet maintenance products

- G Packaging (OSAT)**
 - G1. Plastics manufacturers
 - G2. PCB suppliers
 - G2A. Solder mask suppliers
 - G3. Inspection and metrology tool providers

- H Waste handling**
 - H1. Filtration suppliers
 - H1A. Filtration media suppliers
 - H2. Holding tank manufacturers





CANNONDESIGN

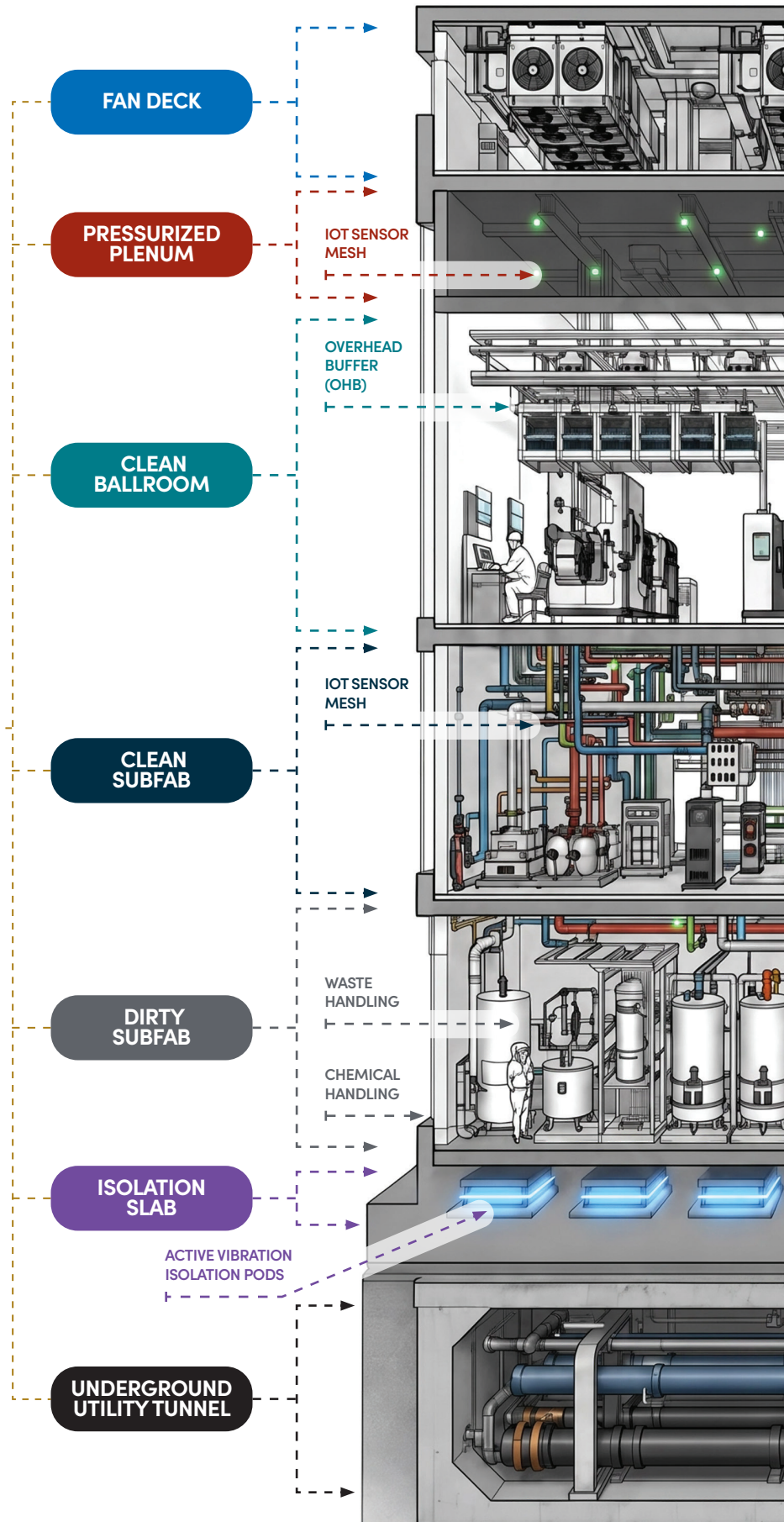
INSIDE A FAB

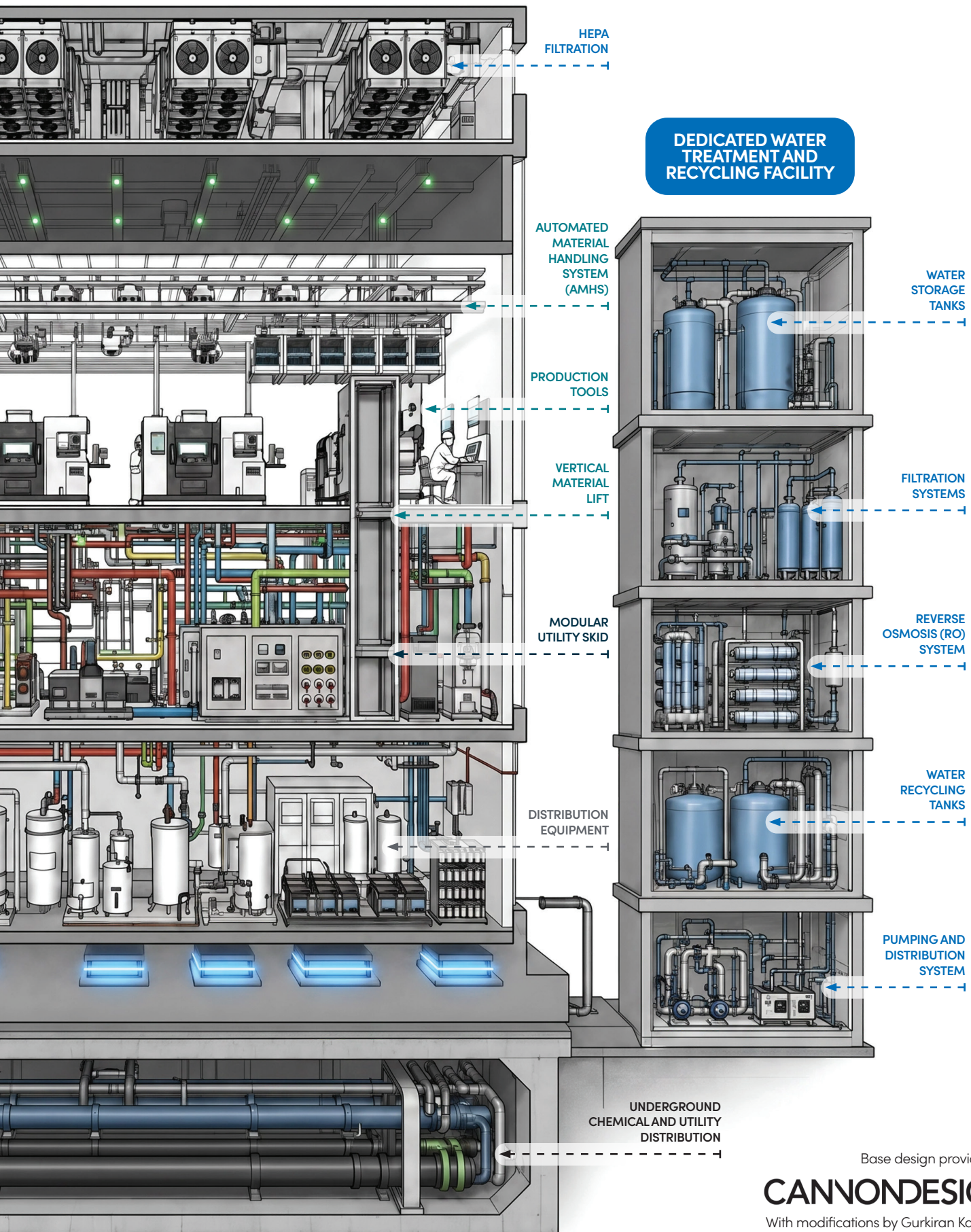
The heart of a fab facility is the cleanroom where wafer processing occurs. However, operation of a cleanroom requires many layers of facility infrastructure. This cutaway diagram depicts multiple levels of a fab, beginning at the top-level air filtration fan deck, moving down to the cleanroom, where production takes place, to the clean subfab, where chemical and utility distribution equipment runs, to the utility deck, or dirty subfab, where waste is processed and chemical handling equipment is housed.

LEVELS OF THE FAB

Each level of a fab requires numerous suppliers. The fan deck drives demand for filtration and airflow systems. The cleanroom requires tool components, optics, metrology, consumables and precision parts. The sub-fab concentrates pumps, abatement, gas cabinets and ultrapure water systems. The utility deck houses tanks, waste treatment and filtration systems.

Firms can map their capabilities to the physical environment where they naturally fit, often through maintenance, repair and operations contracts, indirect services and Tier 1/Tier 2 subtier procurement, which remain the most realistic and scalable entry points for small and mid-sized companies.





Base design provided by

CANNONDESIGN

With modifications by Gurkiran Kaur, MS

FIVE FAB ZONES

Diving deeper, a framework including five fab zones and exterior utilities can be used to describe the categories of suppliers needed to operate a fab. Firms should consider opportunities beyond direct supply to the fabs, including the procurement needs of the Tier 1 supplier categories noted below, as well as those of the Tier 2 firms who supply Tier 1s.

ZONE



CLEANROOM

Production level of the fab: **lithography, deposition, etch, CMP, metrology** and **tool-side operations**.

Includes: Tool OEMs, tool components, optics, metrology, consumables, PCBs, solder mask.

Opportunities: Cleanroom janitorial, garment laundering, FFU/HEPA filter replacement, particle counting, consumable restocking, tool-set maintenance.

SUPPLIER CATEGORIES

- Tool and equipment manufacturers
- Tool and equipment component and service providers
- Optics manufacturers
- Inspection and metrology tool providers
- PCB suppliers
- Solder mask suppliers
- Consumable manufacturers
- Janitorial
- Garment laundering

COMMON SUPPLIER REQUIREMENTS

Mandatory: Responsible Business Alliance (RBA) Code, Supplier Code, Supplier Audits

Recommended: ISO 9001

Conditional: ANSI/ESD S20.20, Business Continuity Plan (BCP)

ZONE



CHEMICAL AND GAS SYSTEMS

Chemical storage, gas cabinets, blending, filtration, distribution.

Includes: Chemical suppliers, distributors, feedstock, filtration, tanks, plastics.

Opportunities: Chemical delivery logistics, spill response, Original Component Manufacturer (OCM) services, abatement system maintenance, UPW distribution.

SUPPLIER CATEGORIES

- Chemical and gas suppliers
- Chemical distributors
- Feedstock providers
- Filtration suppliers
- Filtration media suppliers
- Plastics manufacturers
- Holding tank manufacturers
- Spill response

COMMON SUPPLIER REQUIREMENTS

Mandatory: RBA + Supplier Code, Conflict Minerals/RoHS/REACH

Recommended: ISO 9001, ISO 14001

Conditional: ISO 14064 (GHG), ISO 45001

ZONE



SUB-FAB AND UTILITIES

Mechanical and utility level supporting the cleanroom: pumps, abatement, exhaust, logistics.

Includes: Vacuum pumps, waste handling, in-fab logistics, fleet support.

Opportunities: Vacuum pump service, chiller/heat exchanger maintenance, compressed dry air, exhaust abatement, gas cabinet maintenance, Ultra Pure Water (UPW) polishing loops.

SUPPLIER CATEGORIES

- Vacuum pump producers
- Waste handling
- Fleet maintenance products
- Logistics (in-fab)

COMMON SUPPLIER REQUIREMENTS

Mandatory: BCP for Tier 1 OEMs

Recommended: ISO 9001, ISO 14001, ISO 45001

Conditional: SEMI E187 (cybersecurity), ISO 27001 (data access)

ZONE



SUBSTRATE AND INBOUND MATERIALS

Upstream materials entering the fab.

Includes: Substrate production and inbound logistics.

Opportunities: Vibration isolation services, precision tool cleaning, RF power maintenance, reticle (mask) logistics, metrology calibration.

SUPPLIER CATEGORIES

- Substrate production
- Consumable distributors
- Logistics (inbound)

COMMON SUPPLIER REQUIREMENTS

Mandatory: RBA + Supplier Code

Recommended: ISO 9001

Conditional: ISO/IEC 17025 (calibration), ESD S20.20, ISO 27001, SEMI E187

ZONE



PACKAGING/ OSAT AND OUTBOUND

Downstream assembly, test, packaging and outbound logistics.

Includes: Outsourced Semiconductor Assembly and Test (OSAT), package substrates, solder mask.

Opportunities: Precision machining for fixture fabrication, Front Opening Unified Pod (FOUP) cleaning/repair, ESD packaging, outbound logistics, electronic waste processing, calibration of Automatic Test Equipment (ATE).

SUPPLIER CATEGORIES

- Packaging (OSAT)
- Solder mask suppliers
- Logistics (outbound)

COMMON SUPPLIER REQUIREMENTS

Mandatory: RBA + Supplier Code, Conflict Minerals/RoHS/REACH

Recommended: ISO 9001

Conditional: ESD S20.20, ISO 17025 (ATE calibration)

EXTERIOR UTILITIES

Environmental and facility systems supporting fab operations: waste treatment, filtration, tanks, abatement.

SUPPLIER CATEGORIES

- Waste treatment
- Filtration
- Abatement



FAB SUPPLIER REQUIREMENTS

Semiconductor fabs and their suppliers must adhere to strict quality control requirements. The following table depicts mandatory, conditional and recommended requirements to supply direct to a sample of six **fabs**.



KEY

SYMBOL / TERM	MEANING	TYPICAL USE
Mandatory	Must comply, required for approval	Core certifications (ISO 9001, 45001, RBA)
Conditional	Applies only in specific supplier/product contexts	Automotive, fab equipment or regulated areas
Recommended	Encouraged or preferred, not required	Sustainability, efficiency or voluntary improvement programs

CATEGORY	STANDARD / REQUIREMENT	DETAILS	MICRON	GLOBALFOUNDRIES	INTEL	SAMSUNG	TSMC	QUALCOMM
Quality Management	ISO 9001	Demonstrates a robust quality management system ensuring consistent product and service quality.	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Quality Management	IATF 16949	Automotive-focused QMS emphasizing defect prevention and waste reduction.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Quality Management	ANSI/ESD S20.20	Controls electrostatic discharge to protect sensitive electronics.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Environmental Management	ISO 14001	Provides a framework for reducing environmental impact.	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Environmental Management	ISO 14064	Framework for greenhouse gas emissions reporting and verification.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Environmental Management	ISO 50001	Improves energy performance through structured energy management.	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Environmental Management	AWS (Alliance for Water Stewardship)	Recognizes responsible water stewardship practices.	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Occupational Health and Safety	ISO 45001	Ensures a safe and healthy workplace.	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Information Security	ISO/IEC 27001	Framework for information security management systems.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Information Security	SEMI E187	Cybersecurity standard for fab equipment and manufacturing systems.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Information Security	CMMC (DoW Cybersecurity Maturity Model Certification)	DoW cybersecurity certification required to protect Controlled Unclassified Information (CUI); aligns with NIST SP 800-171 and ISO 27001.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Laboratory Competence	ISO/IEC 17025	Specifies competence of testing and calibration laboratories.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Sustainability and Ethics	RBA Code of Conduct	Ethical standards covering labor, safety, environment and business practices.	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
Sustainability and Ethics	Supplier Code of Conduct	Company-specific code aligned with RBA, covering labor, ethics, safety and environment.	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
Sustainability and Ethics	Supplier Sustainability Standards/Programs	Additional sustainability expectations (e.g., SAQs, training or audits).	Conditional	Conditional	Mandatory	Mandatory	Mandatory	Conditional
Sustainability and Ethics	Conflict Minerals / Product Environmental Compliance	Compliance with conflict minerals and restricted substances regulations (RoHS, REACH, WEEE).	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
Business Continuity	Business Continuity Plan (BCP)	Documented plan to mitigate disruptions and ensure continuous supply.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Audits/Monitoring	Supplier Audits and Monitoring	Oversight to ensure compliance with QMS, sustainability and ethical standards.	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory

TIER 1 SUPPLIER REQUIREMENTS

Tier 1 firms also require sub-tier supplier compliance with many standards and regulations. This table offers a sample for six firms.

KEY

SYMBOL / TERM	MEANING	TYPICAL USE
Mandatory	Must comply, required for approval	Core certifications (ISO 9001, 45001, RBA)
Conditional	Applies only in specific supplier/product contexts	Automotive, fab equipment or regulated areas
Recommended	Encouraged or preferred, not required	Sustainability, efficiency or voluntary improvement programs
Equivalent	Meets the requirement through a comparable standard or process that demonstrates similar controls and outcomes, even if the exact certification is not held.	Alternative standards, customer-specific certifications or validated internal processes providing comparable compliance
NA	Information not available	

CATEGORY	STANDARD/REQUIREMENT	DETAILS	APPLIED MATERIALS	LINDE	CORNING	EDWARDS VACUUM	KLA	ASM
Quality Management	ISO 9001	Demonstrates a robust quality management system ensuring consistent product and service quality.	Recommended	Mandatory	Mandatory	Recommended	Recommended	Recommended
Quality Management	IATF 16949	Automotive-focused QMS emphasizing defect prevention and waste reduction.	Conditional	Conditional	Mandatory	Conditional	Conditional	Conditional
Quality Management	ANSI/ESD S20.20	Controls electrostatic discharge to protect sensitive electronics.	Conditional	NA	NA	Conditional	Conditional	Conditional
Environmental Management	ISO 14001	Provides a framework for reducing environmental impact.	Recommended	Mandatory	Mandatory	Recommended	Recommended	Recommended
Environmental Management	ISO 14064	Framework for greenhouse gas emissions reporting and verification.	Recommended	NA	Mandatory	Conditional	Conditional	Conditional
Environmental Management	ISO 50001	Improves energy performance through structured energy management.	Recommended	NA	NA	Recommended	Recommended	Recommended
Environmental Management	AWS (Alliance for Water Stewardship)	Recognizes responsible water stewardship practices.	Recommended	Mandatory	Conditional	Recommended	Recommended	Recommended
Occupational Health and Safety	ISO 45001	Ensures a safe and healthy workplace.	Recommended	Mandatory	Conditional	Recommended	Recommended	Recommended
Information Security	ISO/IEC 27001	Framework for information security management systems.	Conditional	Conditional	Mandatory	Conditional	Conditional	Conditional
Information Security	SEMI E187	Cybersecurity standard for fab equipment and manufacturing systems.	Conditional	NA	Equivalent	Conditional	Conditional	Conditional
Information Security	CMMC (DoW Cybersecurity Maturity Model Certification)	DoW cybersecurity certification required to protect Controlled Unclassified Information (CUI); aligns with NIST SP 800-171 and ISO 27001.	Conditional	NA	NA	Conditional	Conditional	Conditional
Laboratory Competence	ISO/IEC 17025	Specifies competence of testing and calibration laboratories.	Conditional	Conditional	Conditional	Conditional	Conditional	Conditional
Sustainability and Ethics	RBA Code of Conduct	Ethical standards covering labor, safety, environment and business practices.	Mandatory	Mandatory	Equivalent	Conditional	Mandatory	Mandatory
Sustainability and Ethics	Supplier Code of Conduct	Company-specific code aligned with RBA, covering labor, ethics, safety and environment.	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
Sustainability and Ethics	Supplier Sustainability Standards/Programs	Additional sustainability expectations (e.g., SAQs, training or audits).	Mandatory	NA	NA	Conditional	Conditional	Conditional
Sustainability and Ethics	Conflict Minerals/Product Environmental Compliance	Compliance with conflict minerals and restricted substances regulations (RoHS, REACH, WEEE).	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
Business Continuity	Business Continuity Plan (BCP)	Documented plan to mitigate disruptions and ensure continuous supply.	Mandatory	Mandatory	Mandatory	Conditional	Conditional	Conditional
Audits/Monitoring	Supplier Audits and Monitoring	Oversight to ensure compliance with QMS, sustainability and ethical standards.	Conditional	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory

GET INVOLVED: TECH HUB RESOURCES

NY SMART I-CORRIDOR INNOVATION OFFICE

Connecting and coordinating across the SMART I-Corridor region

TECH HUB CO-CONVENERS:



SCAN | SUPPLY CHAIN ACTIVATION NETWORK



tech hubs | OFFICIAL AWARDEE
NY SMART
I-CORRIDOR



In preparation for historic growth in domestic semiconductor production, the NY SMART I-Corridor is accelerating supply chain readiness across the region through SCAN. This initiative supports businesses seeking to enter, expand or strengthen their role within the semiconductor supply chain by providing direct services through a coordinated network of Manufacturing Extension Partnerships (MEPs) and Economic Development Organizations (EDOs).

HOW SCAN HELPS BUSINESSES:

- ✓ **Supplier database:** Identify and explore regional semiconductor supply chain manufacturing capabilities.
- ✓ **Accelerate growth:** Obtain referrals to capital support providers, ready-made sites, workforce solutions and export assistance.
- ✓ **Technical assistance:** Connect with service providers ready to help your organization obtain certifications, implement lean manufacturing, prepare for digital transformation and support facility upgrades.
- ✓ **Strategic matchmaking:** Collaborate with Original Equipment Manufacturers (OEMs), Tier 1 supply chain firms and other potential partners through regional engagements.

MEPs deliver hands-on support to manufacturers, while EDOs provide business expansion resources and access to state, federal and private investment. Together, they help companies grow, compete and thrive in the semiconductor space.

WHY IT MATTERS

Momentum

Large-scale semiconductor investments are reshaping the Upstate New York economy.

Resilience

Strengthening local suppliers reduces the reliance on foreign inputs.

Business Growth

SCAN helps connect businesses along the NY SMART I-Corridor with resources to help them scale and grow.

➔ Visit the NY SMART I-Corridor Tech Hub website for the latest news and events: nysmarticorridor.com

STEP UP

SEMICONDUCTOR TALENT AND EMPLOYER PARTNERSHIP UPSTATE NEW YORK



About 14,000 new semiconductor-related job opportunities are expected to arrive in Upstate New York over the next decade. To meet this massive workforce demand and directly address talent needs and gaps, the NY SMART I-Corridor's employer-led STEP UP initiative is coordinating investments in training infrastructure, wraparound supports and inclusive access to high-quality manufacturing careers.

HOW STEP UP HELPS BUSINESSES:

- ✓ **Dedicated support:** Direct access to the director of industry partnerships to help find, hire and retain skilled talent.
- ✓ **Workforce intelligence:** Real-time labor market data, skill maps and demand forecasts that drive smart business decisions.
- ✓ **Tailored solutions:** Translation of specific hiring needs into training programs or upskill pathways in partnership with colleges, unions and community-based organizations
- ✓ **ON-RAMP opportunities:** Employers may have the opportunity to be supported through co-design and piloting of new job-aligned training programs, pilot funding, wraparound services for talent retention (like childcare and transportation) and the launch of employer-led work-and-learn initiatives across the I-Corridor.

WHY IT MATTERS

Meeting Demand

Skilling thousands of local workers to fill vital middle-skill and construction roles expands existing and potential semiconductor supplier capacity.

Building Resiliency

A homegrown workforce fuels domestic semiconductor capacity and supply chain resilience, as well as strengthens talent pipelines.

Jobs in the Community

5,000 middle-skill and 4,000 construction jobs will need to be filled, creating a local workforce that fuels domestic semiconductor capacity and resilience.



COMMERCIALIZATION AND COLLABORATION CENTER

Ready to get started? Contact us today:
nysmarticorridor.com/get-connected



C3 is investing in businesses that push the boundaries of innovation. The \$7 million NY THRIVE Innovation Voucher program, funded by the Economic Development Administration and New York State, enables companies to access a robust ecosystem of full-service fabrication facilities, advanced instrumentation, collaborative research opportunities and commercialization legal services.

CONSULT THE C3 TEAM FOR CONSULTATION AND ASSISTANCE REGARDING:

- ✓ Innovation grants and vouchers
- ✓ Intellectual assets
- ✓ State-of-the-art core facilities
- ✓ Collaborative partnerships
- ✓ Specialized equipment
- ✓ Commercialization support
- ✓ Maker and prototyping services



University at Buffalo

Center for Supply
Chain Analytics

School of Management