

# SUNY ADIRONDACK FutureWorks PROJECT



## Executive Summary

SUNY Adirondack is poised to address the urgent need for expanded classroom and laboratory spaces designed to equip our students for the rapidly evolving high-technology landscape of the Capital Region. Our proposed project targets key growth sectors—Cybersecurity/CISCO Networking, Mechatronics, and HVAC—by providing state-of-the-art facilities that mirror modern industry environments. This initiative is especially timely given the strong legislative support exemplified by Senator Schumer’s backing through the CHIPS and Science Act.

## Responding to Regional Economic Drivers

The Capital Region is experiencing transformative growth:

- **Manufacturing and Semiconductor Industries:** Technician roles in manufacturing are projected to increase by 24% from 2020 to 2030, with an estimated 2,907 annual job openings. Moreover, the U.S. Department of Commerce’s CHIPS and Science Act has earmarked \$1.5 billion for the Global Foundries chip fabrication plant expansion, which is expected to triple capacity over the next decade—driving a critical need for skilled technicians.
- **IT and Cybersecurity:** Demand in IT is surging, with employment for Software Developers and QA Analysts expected to rise by 34.2%, and Information Security Analysts by 32.7% between 2020 and 2030. These trends underscore the necessity for cutting-edge training facilities that can rapidly adapt to industry demands.
- **HVAC and Energy Transitions:** In addition to these sectors, there is a growing demand for HVAC expertise driven by New York’s transition from natural gas to electric systems. This residential shift not only promotes energy efficiency but also creates a need for professionals trained in modern HVAC technologies.

## Transformative Learning Environments

To prepare our students for these dynamic career pathways, we propose the creation of FutureWorks Centers—modern instructional spaces that include:

- **Robotics, PLC, and Motors Labs** featuring advanced machinery and simulation tools to provide hands-on learning experiences that mirror current industrial practices.
- **IT and Cybersecurity Facilities** equipped with the latest software and hardware to train students in emerging technologies and cyber defense techniques.
- **HVAC Training Facilities** designed to meet the rising demand for professionals capable of navigating the transition from natural gas to electric energy systems, ensuring our workforce is equipped for the sustainable energy future.
- **Adaptive Learning Spaces** (flexible classrooms and labs) designed to support both traditional degree programs and short-term industry-responsive training, ensuring our graduates can meet evolving workforce demands.

## Conclusion

The FutureWorks Centers are more than expansions—they are an investment in the future of our regional economy and workforce. By aligning our educational infrastructure with industry needs, we will produce highly qualified professionals who are ready to drive innovation and secure the technological advancements of tomorrow. The accompanying plans and renderings illustrate the dynamic and modern learning environments that will prepare our students for the challenges of real-world workplaces.

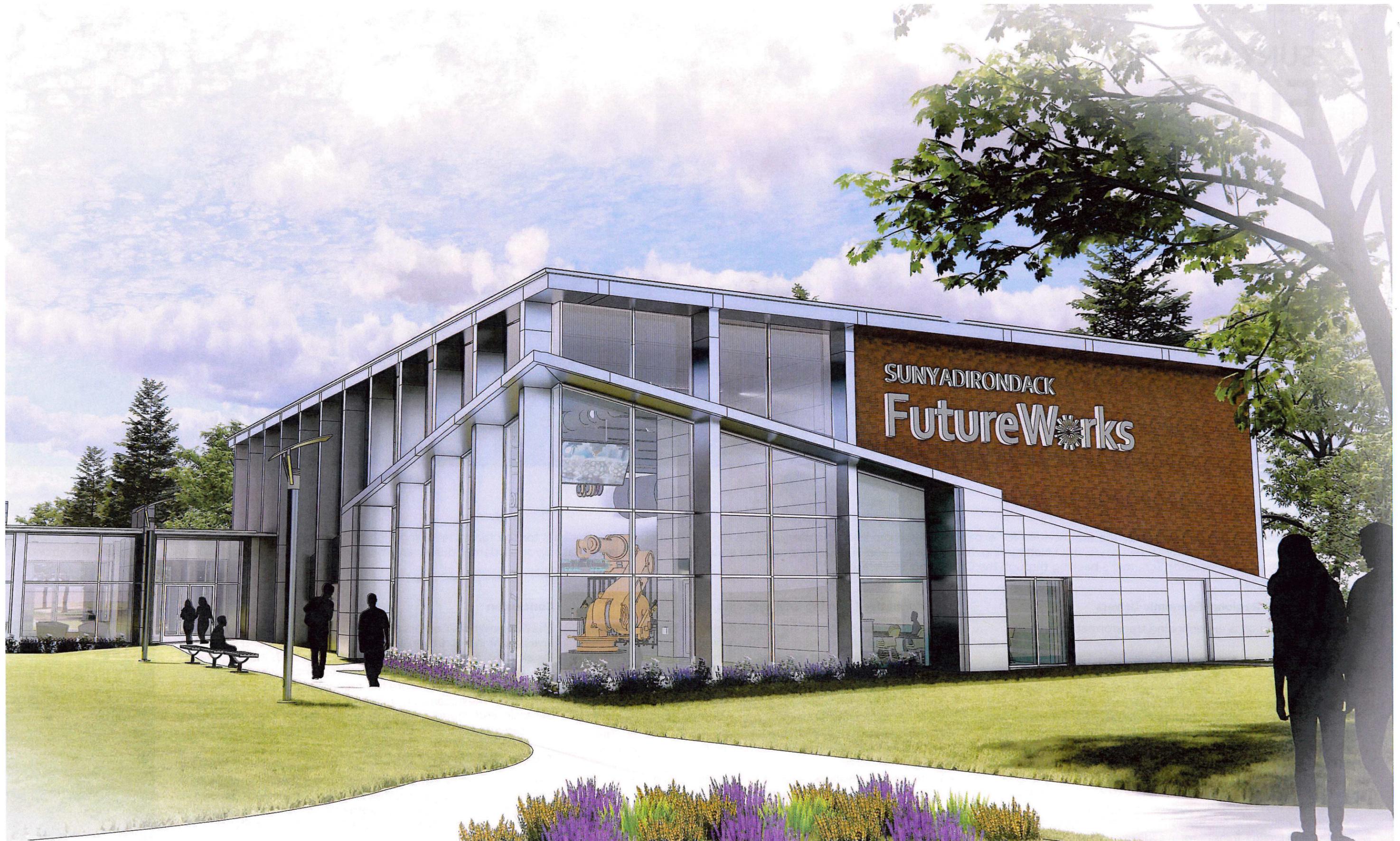
**Total Project Cost:** \$33.8M

The renovation of current spaces will address nearly \$10M in deferred maintenance expenses. The college’s Foundation has committed to a fundraising campaign to support a portion of the cost, and any additional grant funds can be matched 1:1 by New York State.

In completing this project, SUNY Adirondack will have built the facilities and infrastructure to launch additional programs in the future to support local and regional workforce partners.

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**SUNYADIRONDACK**

**FutureWorks**  
Exterior Approach

**JMZ** architects | planners



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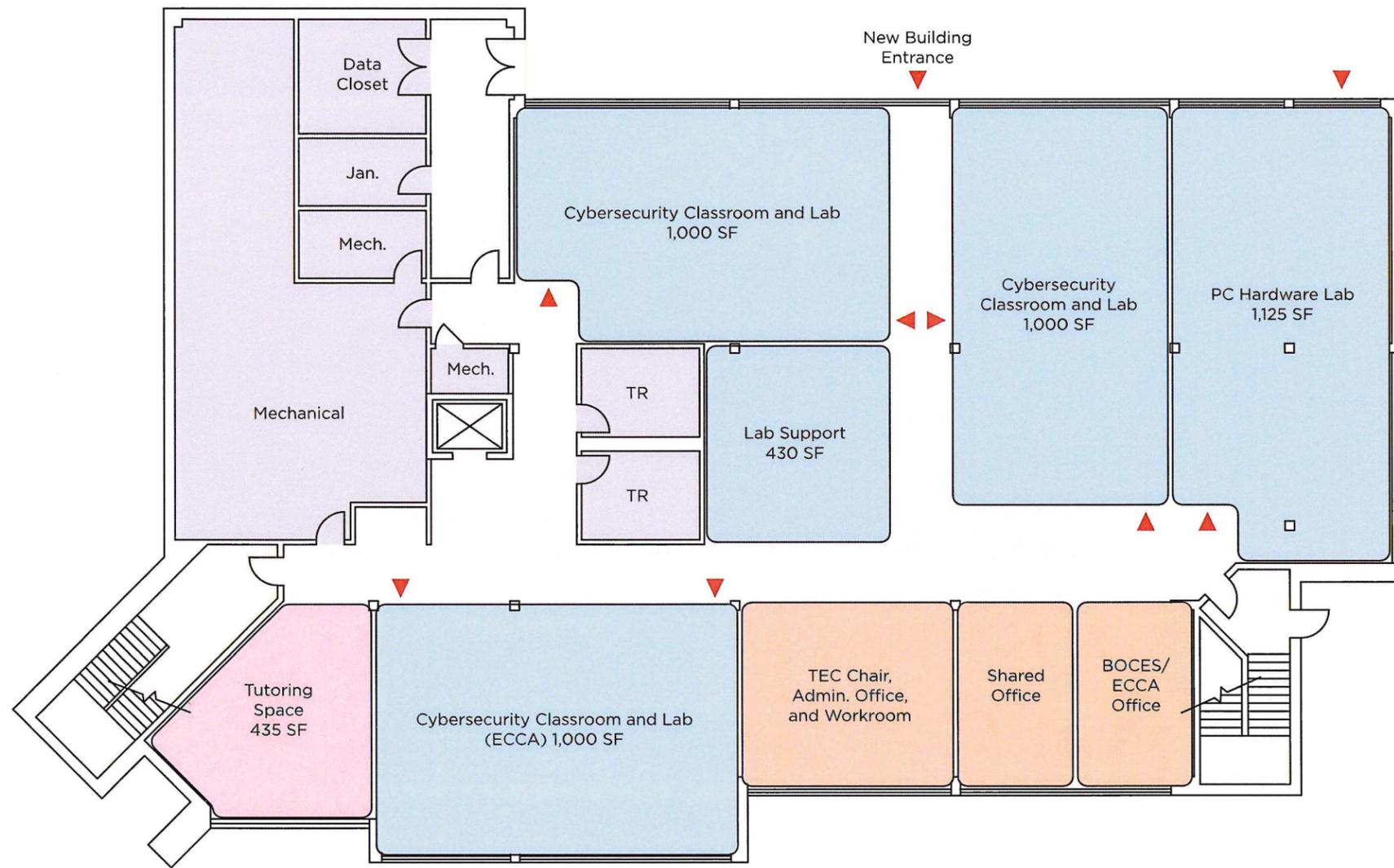
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- Class Lab
- Office and Support
- Tutoring Space
- Building Services
- Circulation
- Entrance



Scale: 1/16" = 1'-0"