

The background image shows a bright, modern school interior. Large windows on the right side offer a view of a brick school building. Inside, several students are seated at tables and on a circular blue ottoman, engaged in study or discussion. The ceiling features wooden slats and modern circular pendant lights. A semi-transparent white banner is overlaid on the upper part of the image, containing the event title and details.

EDspaces

Designing the Future of Education
Charlotte, NC | November 7-9, 2023

School to Career: Leveraging Partnerships to Foster Growth Paths

November 8, 2023 – 4PM

It's Nice to Meet You



Chris Colby
AIA, NCARB, LEED AP
Southeast K-12
Practice Leader
CPL



Ken Mayer
FAIA, LEED AP
Southeast Higher
Education Leader
CPL



Jeff Wyco
Dean of Industrial
Construction & Transportation
Technologies
Guilford Technical Community College
Jamestown, North Carolina

Learning Objectives

1. Explore non-traditional , Technology Rich K12 to Employment Pathways
2. Importance of integrating technology trade-skills into K12 Curriculum improving critical thinking + engagement
3. Reverse engineer market demand
4. How private industry partnerships can benefit educational programing



York CSD STEM Center

A Non-Traditional Path

- Opportunity to Explore a Career Pathway at an Early Age
- Increased academic engagement
- Provided Inclusion
- Learned Hands + Real World Skills
- Building Relationships
- Choice of Employment or College







Career Tech HS: Hudson Valley New York





Chautauqua Lake CSD

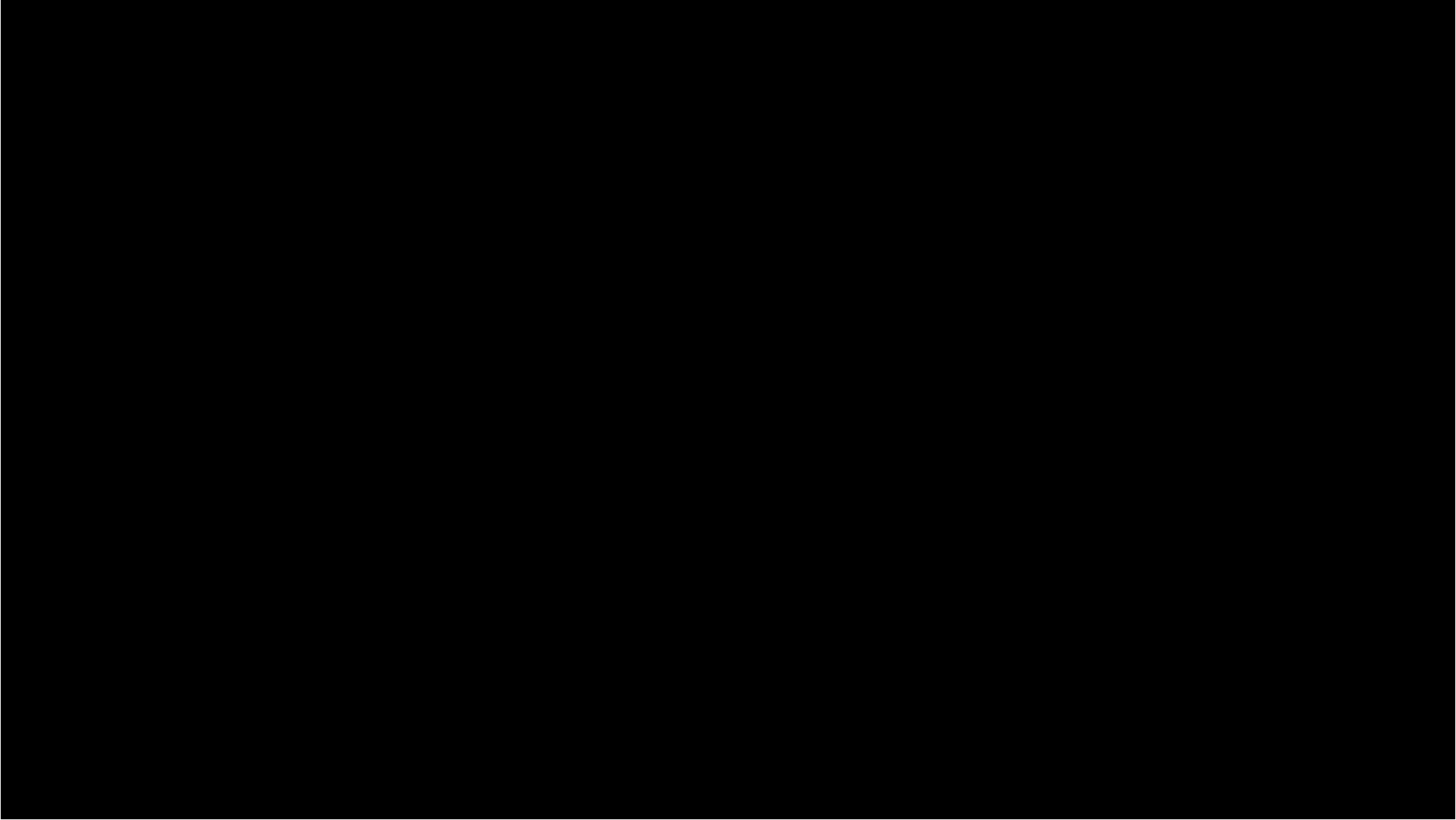




Pine Bush CSD Haas Innovation Center



Pine Bush CSD Haas Innovation Center



How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- Showcase the Programs
- Mirror the Workplace
- Program and Space Flexibility
- Equipment Integration



Guilford Technical Community College—Center for Advanced Manufacturing

How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- Showcase the Programs
- Mirror the Workplace
- Program and Space Flexibility
- Equipment Integration



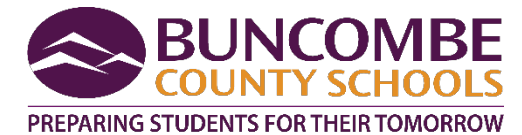
Guilford Technical Community College—Center for Advanced Manufacturing

Asheville-Buncombe Technical Community College Workforce Training Center

- “Groups involved in the expansion include Buncombe County & the Economic Development Coalition for Asheville-Buncombe County, the NC Department of Commerce and the Economic Development Partnership of NC, the NC Golden LEAF Foundation, the NC Department of Transportation, the NC General Assembly, Asheville-Buncombe Technical Community College, Biltmore Farms & Duke Energy.”

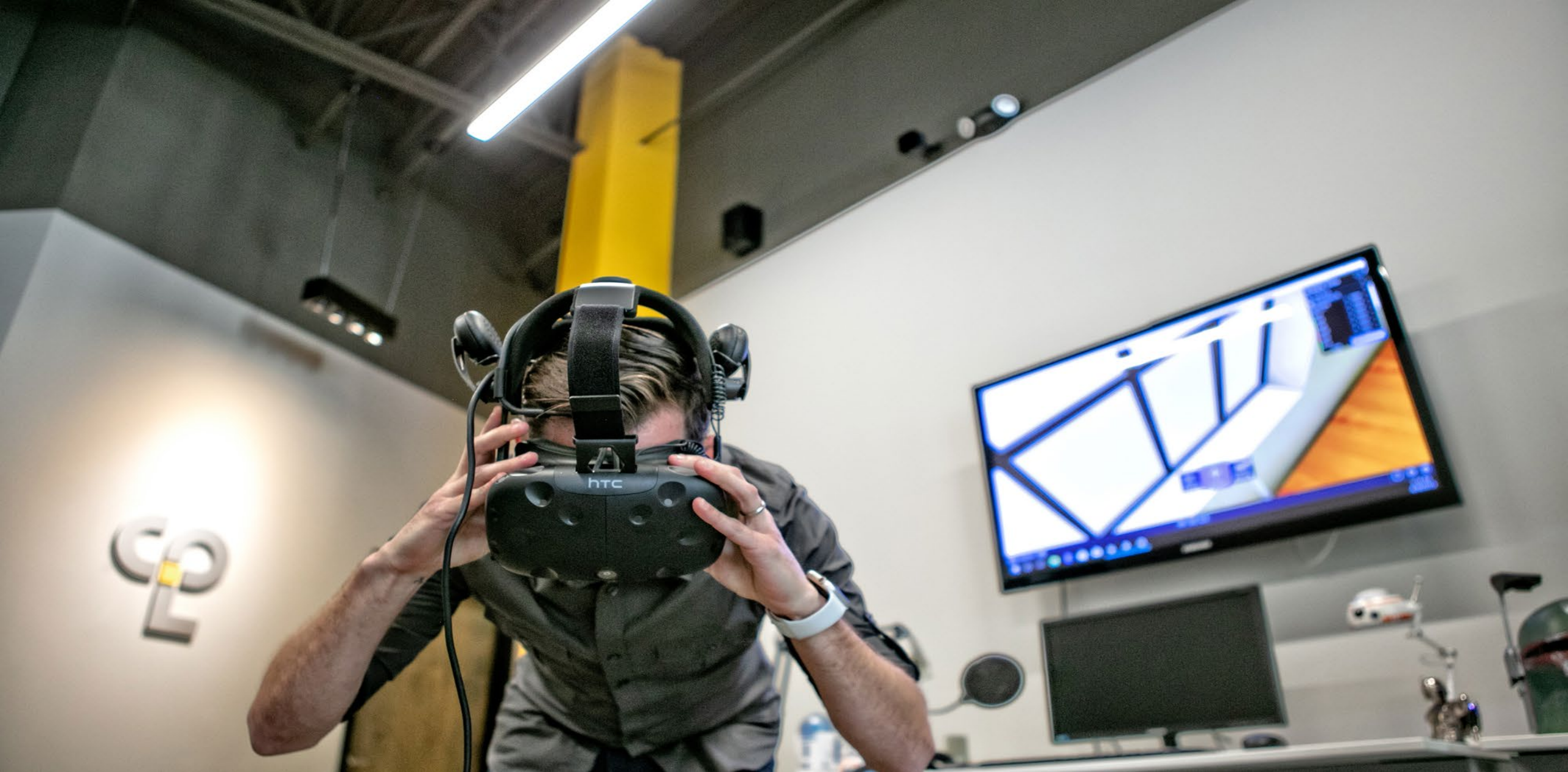


BILTMORE FARMS





Virtual Reality



Virtual Reality





How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- **Showcase the Programs**
- Mirror the Workplace
- Program and Space Flexibility
- Equipment Integration



Guilford Technical Community College—Center for Advanced Manufacturing



Guilford Technical Community College—Center for Advanced Manufacturing



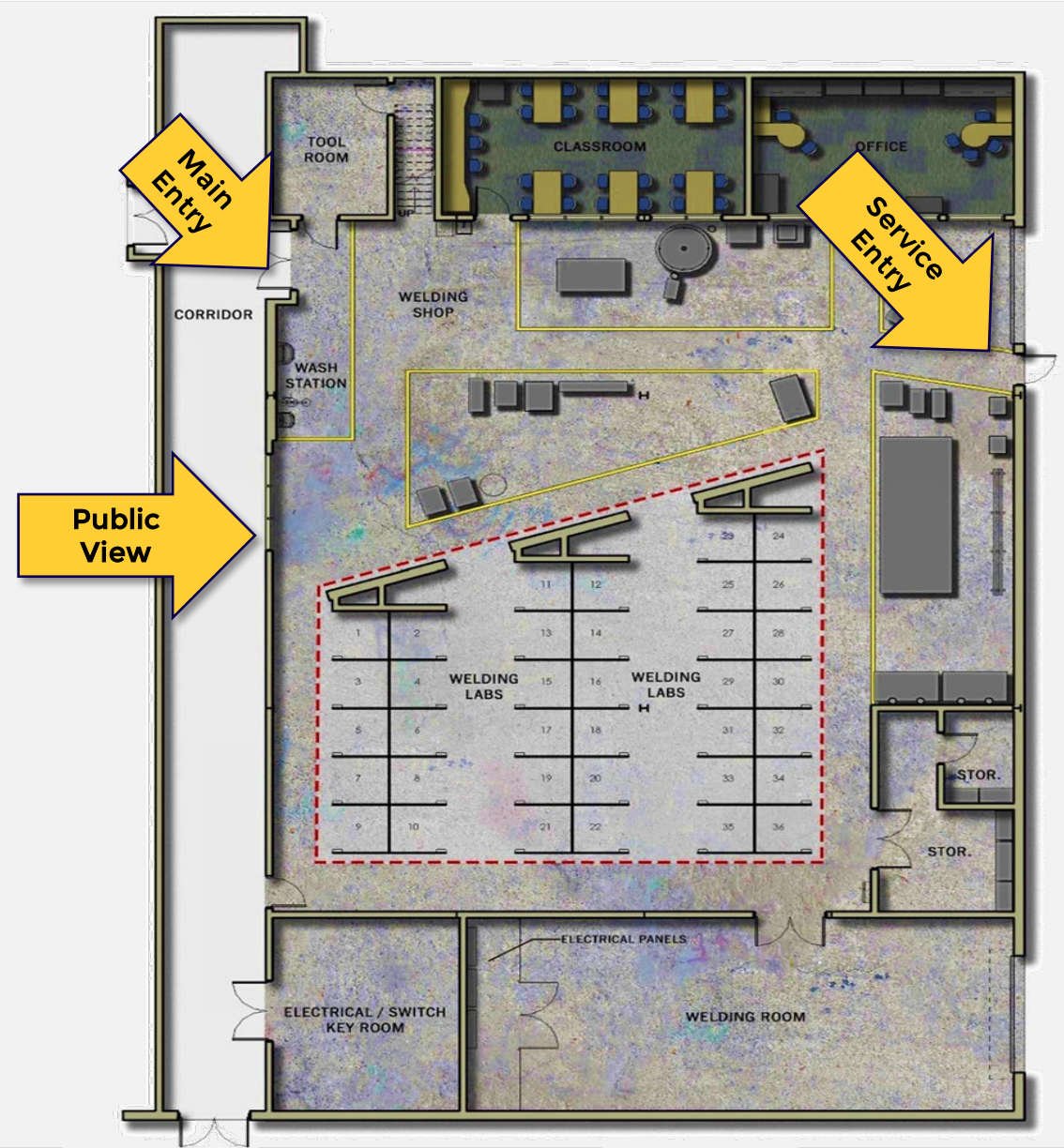
Guilford Technical Community College—Center for Advanced Manufacturing



Guilford Technical Community College—Center for Advanced Manufacturing



Traditional Layout



Showcased Layout



How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- Showcase the Programs
- **Mirror the Workplace**
- Program and Space Flexibility
- Equipment Integration



Guilford Technical Community College—Center for Advanced Manufacturing

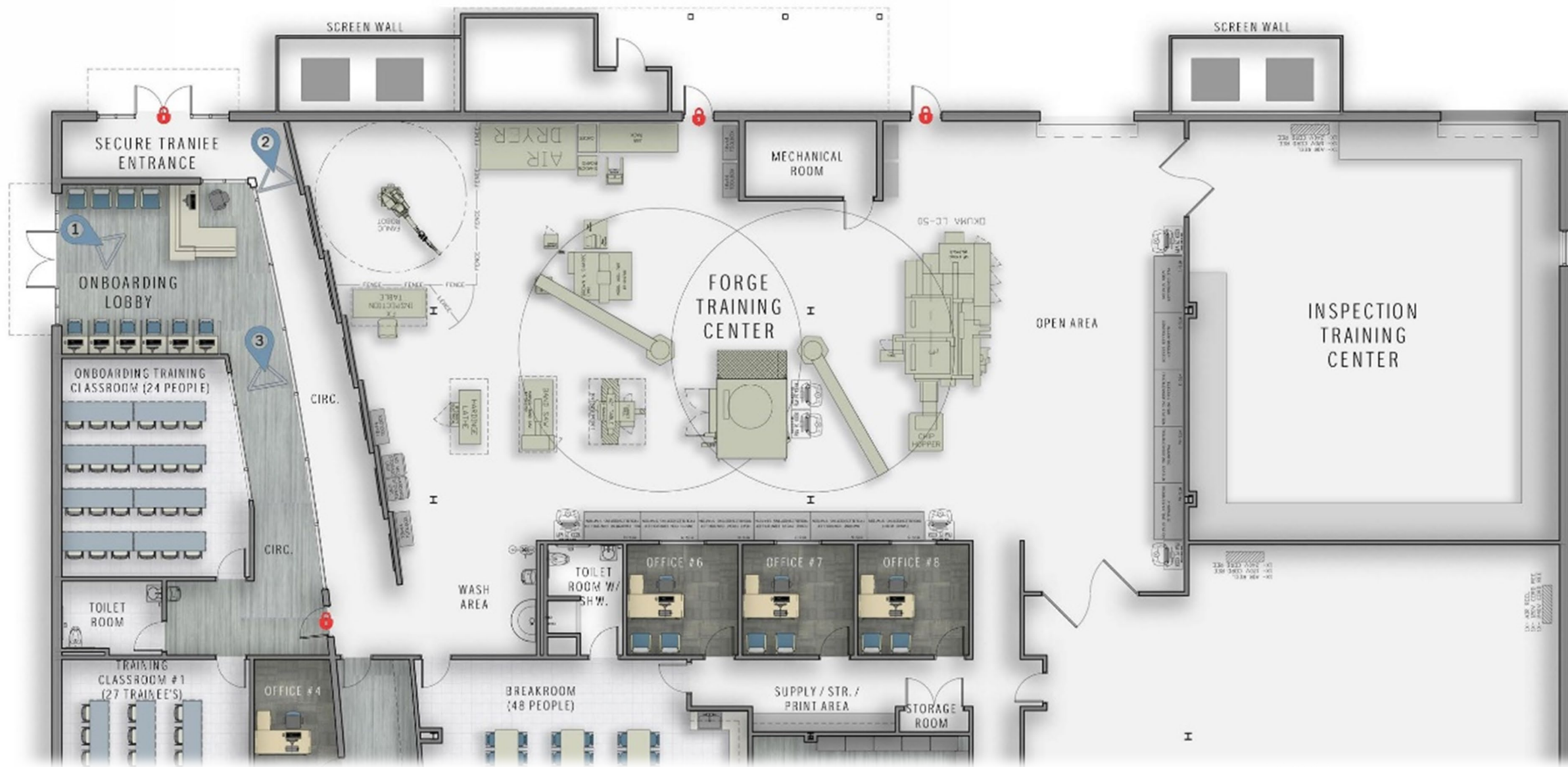
Workplace Design Informs Education Space Design

- Academic Goals
- Industry Needs
- Mirroring Advanced Manufacturing Environment
 - Specialty Systems
 - Loading Docks
 - Overhead Cranes
 - Conveyance Systems
 - Robotics
 - Racking Systems
 - Process Piping
 - Electrical Busway Systems









Columbus Technical College—Aircraft Manufacturing Training Center



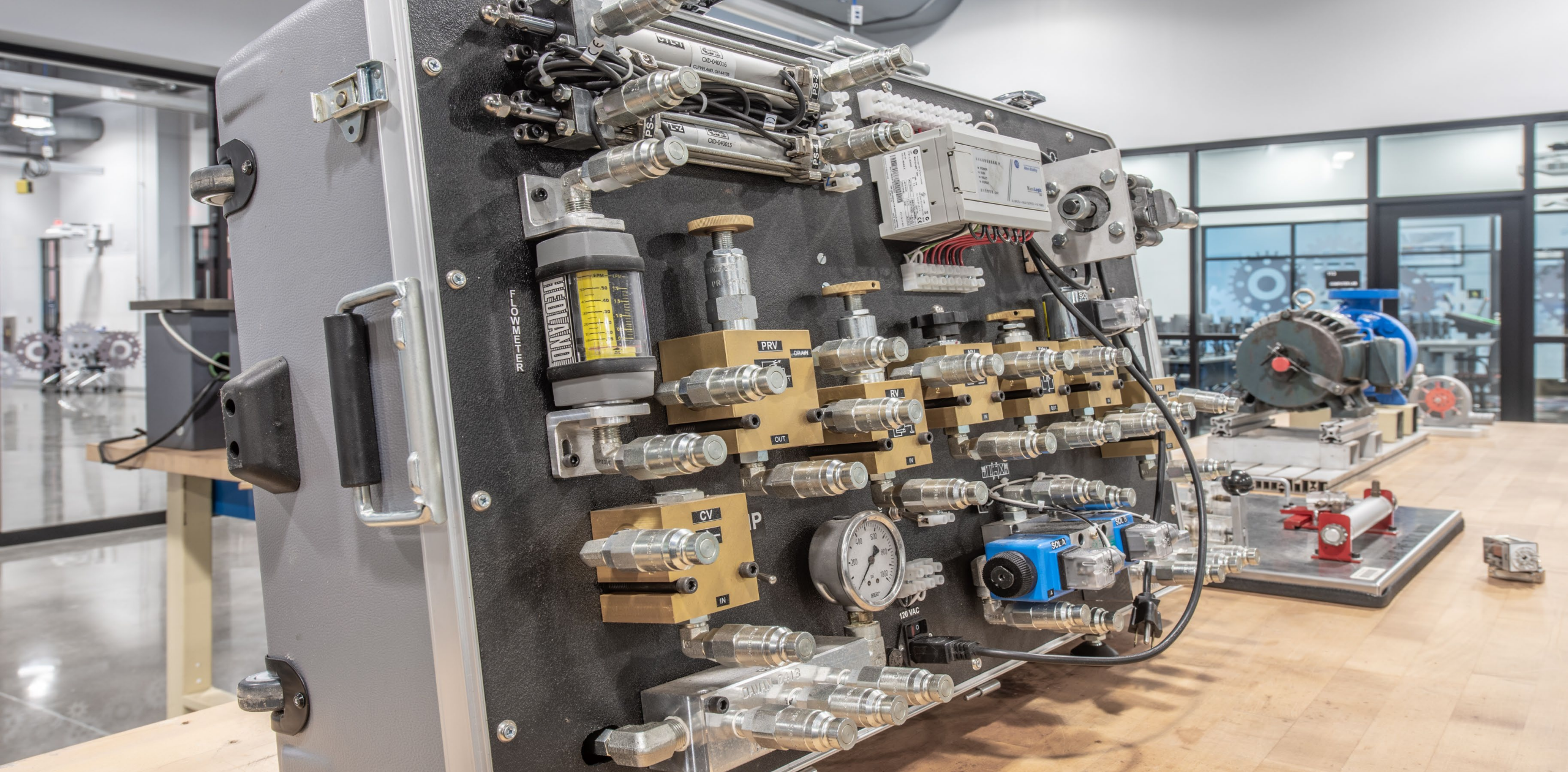
Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies

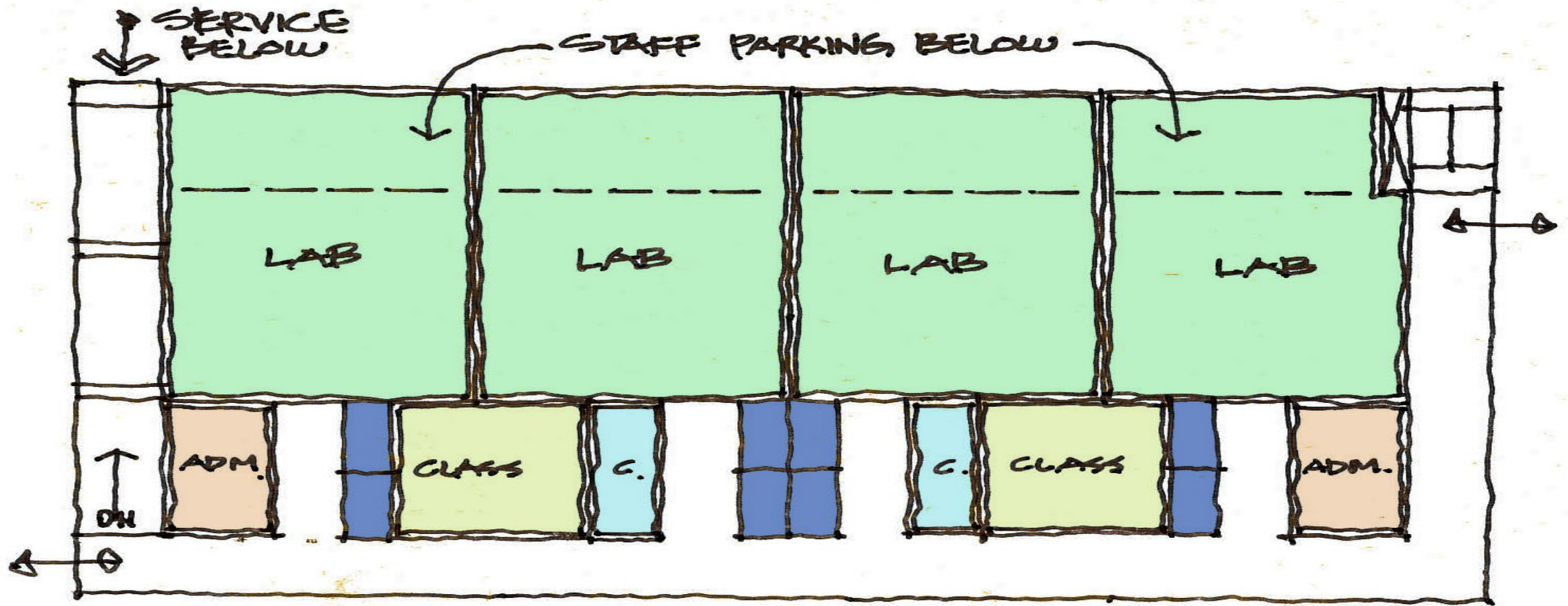
How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- Showcase the Programs
- Mirror the Workplace
- **Program and Space Flexibility**
- Equipment Integration



Guilford Technical Community College—Center for Advanced Manufacturing



L - CIRCULATION! w/ SERVICE BELOW - FLEX POD

1:30







Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies



Chattahoochee Technical College--Center for Advanced Manufacturing and Emerging Technologies

How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- Showcase the Programs
- Mirror the Workplace
- Program and Space Flexibility
- **Equipment Integration**



Guilford Technical Community College—Center for Advanced Manufacturing





Guilford Technical Community College—Center for Advanced Manufacturing





Guilford Technical Community College—Center for Advanced Manufacturing



Guilford Technical Community College—Center for Advanced Manufacturing

How Design Can Facilitate the Education Goals

Key Considerations

- Collaborating with Multiple Partners and Stakeholders
- Showcase the Programs
- Mirror the Workplace
- Program and Space Flexibility
- Equipment Integration



Guilford Technical Community College—Center for Advanced Manufacturing

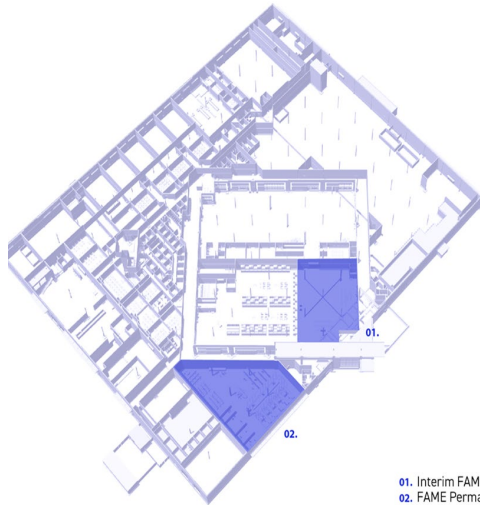
Technical Programs in CADM

- Students have options to move to other CTE programs if they decide the program they picked is not for them.



NCFAME AMT

- History - built from Toyota TPS.
- 1st at Georgetown, KY to build WF.
- Successful and decided to replicate with each new plant (now in 14 states).
- GTCC selected for TBMNC

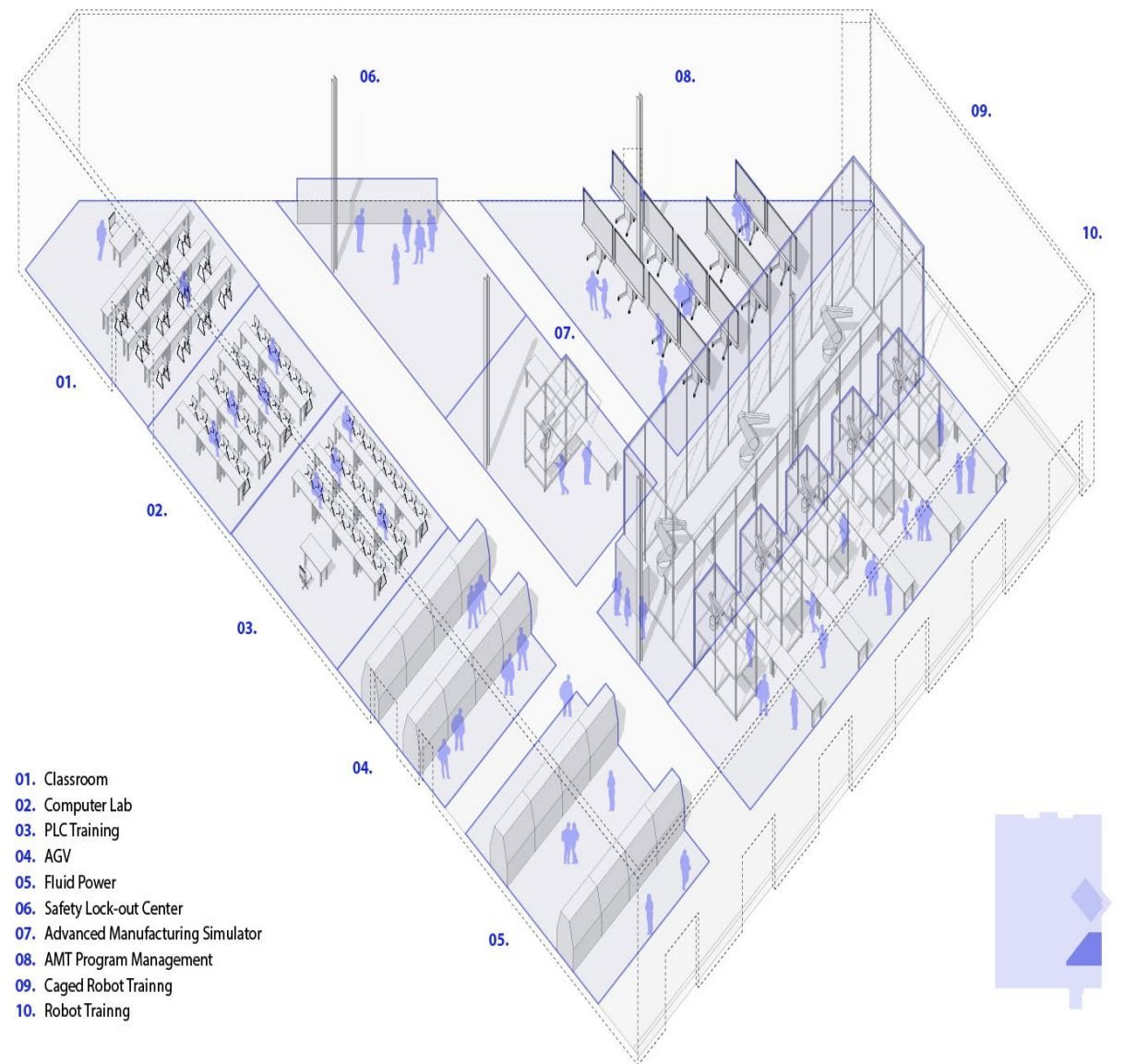
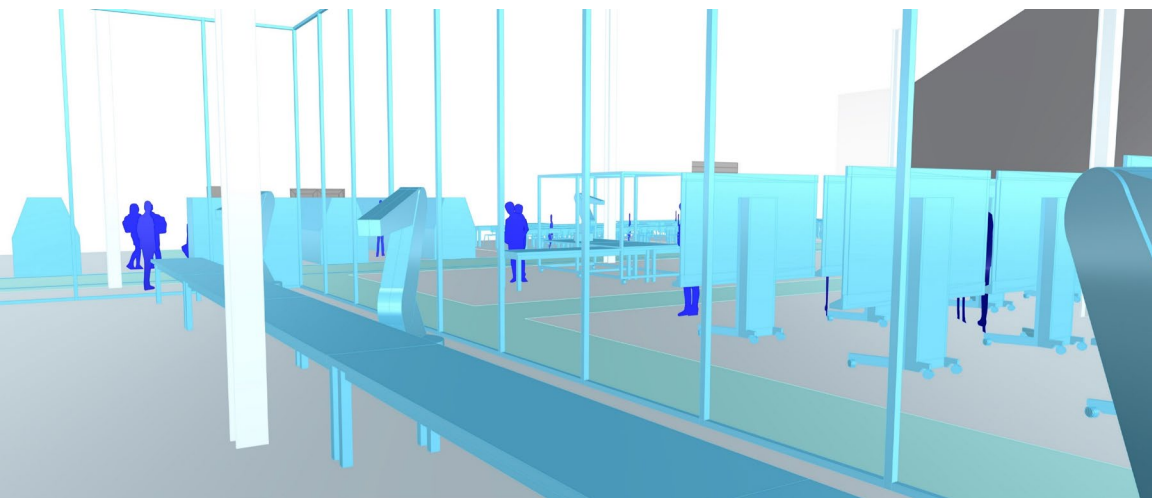
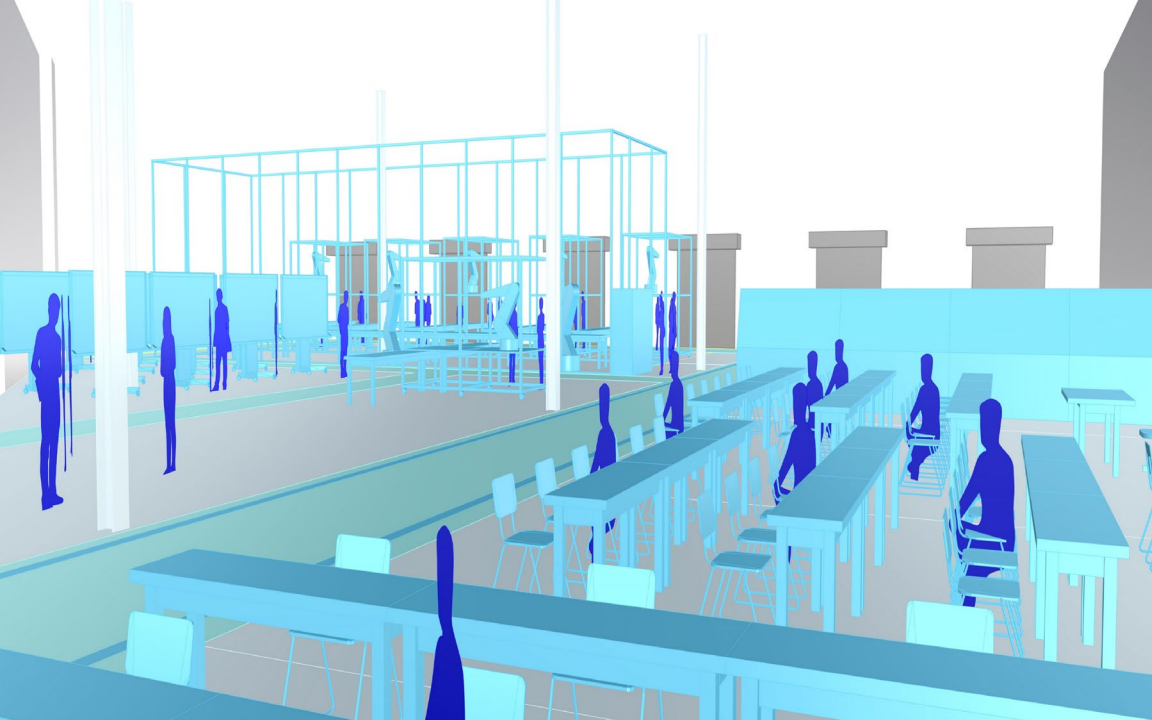


01. Interim FAME Space
02. FAME Permanent Sp.



Louisville, Kentucky FAME Center





Program: AAS Mechatronics Engineering Technology: AMT

- 2-years, students at GTCC 2 days/week; work at employer other 3 days/week
- 1/3 technical, 1/3 professional behaviors, 1/3 lean manufacturing
- Technical: electrical, mechanical, fluid power, programmable controls, robotics
- 28 professional behaviors
Contextualizing gen ed classes



Entry requirements

- Min. 2.8GPA, college ready (no developmental courses needed), employer sponsored only.
- Expectations
 - Must receive C or better in each class.
 - Professional Attire.
 - Attendance: If more than 3 absences in a 6 month period.



Employer Partners

- ABCO Automation
- Jowat Adhesives
- Masterbrand
- Proctor & Gamble
- Toyota Battery Manufacturing NC
- Westrock (2 locations)
- Ziehl-Abegg



EDspaces

Designing the Future of Education
Charlotte, NC | November 7-9, 2023

Thank You!

Please scan the QR code to
provide session feedback.



SCAN ME