



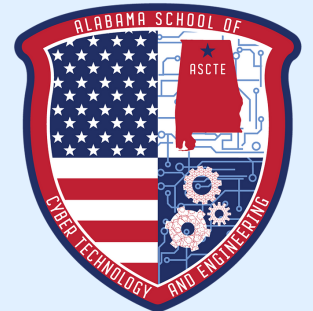
# Supporting High School Advanced Manufacturing Education

An ADAMC Partner Success Story

## An Introduction to ASCTE

What is ASCTE?

The Alabama School of Cyber Technology and Engineering (ASCTE) is the nation's only high school focused on the integration of cyber technology and engineering into all academic disciplines. ASCTE is a public, residential magnet high school serving students throughout the state of Alabama. To augment the manufacturing and engineering-related programs, ASCTE is establishing a machine/fabrication shop on campus.



What is ADAMC?

The Alabama Defense Advanced Manufacturing Community (ADAMC) consortium was created to promote visibility, awareness, and adoption of advanced manufacturing technologies; and to enhance the development and education of the regional workforce that is critical to the modernization of the DoD industrial base and related industries.

The Problem

The ASCTE fabrication shop houses a variety of equipment and tools, such as welding, CNC routing, cutting, manual lathe, painting, and an assortment of saws, grinders, and hand tools. In a new building with new equipment, the fabrication shop was in need of a safe environment, well-maintained equipment, and stocked supplies that meet the educational needs of the students and project needs for their classes. As part of the ADAMC Workforce Development initiatives, staff and students from the University of Alabama in Huntsville, Office for Operational Excellence are supporting the startup of this manufacturing lab space at ASCTE by assisting with the development of shop floor layouts, operational policies, material management and inventory control processes, and safety procedures.

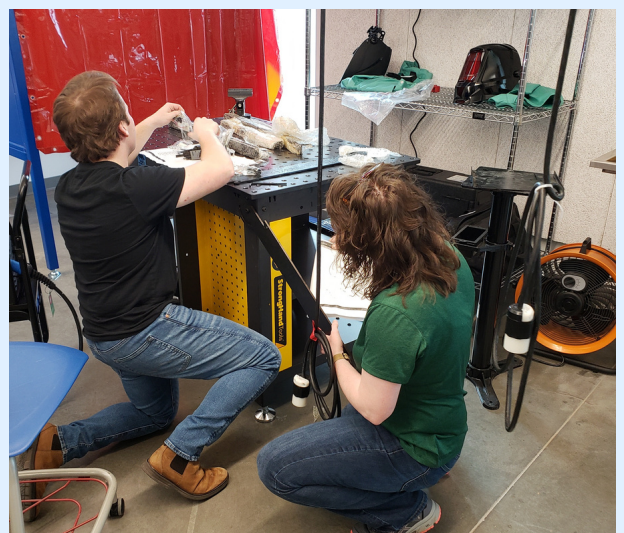
**“The machine/fabrication shop at ASCTE is an essential resource for students to transform knowledge into applied skill. This partnership allows us to execute our mission at its highest level ensuring that students are prepared in both theory and in practice to drive the momentum needed for innovation in the workforce”**

— Matt Massey, President of ASCTE



The Solution

ASCTE worked with the UAH Office of Operational Excellence staff and student employees to help tackle the challenges with the startup of the fabrication shop. UAH-OOE staff Joe Paxton and James Faw worked with UAH students Mario Ward, and Lindsay Konig to develop an Operational Development Plan (ODP) for the ASCTE fabrication/machine shop. Utilizing input from the engineering teachers at ASCTE, the ODP focuses on equipment layout, production flow, training, material management, and shop management, and provided near-, mid-, and long-term goals. This future planning by the UAH staff and students has proven to be a valuable resource in the process of developing the fabrication shop into a well-managed and safe environment for the students of ASCTE.



Learn More at [www.ADAMC.Tech](http://www.ADAMC.Tech)