

05

Education Asset Inventory Overview



Overview and Purpose

The following section, and sub-sections, represents the full Education Asset Inventory. This overview provides in-depth review and analysis of education and training programs offered across the Northeast Florida region which align to the identified Target Clusters as determined in Chapter 2: Target Industry Validation and Update of the Elevate Northeast Florida Strategy. In Chapter 2, the region's existing target industries and niches sectors are examined and profiles were created for each area including marketing messages and industry trend analysis for the following sectors: Advanced Manufacturing, Financial Services, Health & Biomedical, Advanced Transportation & Logistics, and Information Technology & Innovation. The following Education Asset Inventory is a supplemental review and analysis to accompany the Target industry report and provide the region with a greater, and wide angle lens, understanding of the education and training system programming (secondary and postsecondary programs) which support the target industries in Northeast Florida. Program offerings from secondary career and technical (CTE) programs to industry certifications, associate degrees, and through to doctorate level programs were inventoried and assessed to determine how well aligned the current system infrastructure is to support industry demands in key sectors.

This report includes three sub-sections:

Education Programming Data Analysis Overview –

This overview provides a breakdown, at the regional level, and for each industry sector as to the percentage of credentials offered (certificate, associate, bachelor, etc.), institution type (public, private for profit, and private not for profit). This overview will aid in future conversations with industry sectors to determine whether or not the region, as a whole, is effectively serving collective industry needs.

Gap Analysis Overview –

This overview provides an analysis of job openings over time against student production aligned to the occupational cluster. This analysis reviewed occupational projection data and matched demand against student supply as represented by student completion data for appropriate credentials and degrees which align to the occupational groups in the region.

Education Infrastructure Review and Gap Analysis by Industry Sector –

This overview goes into detail for each industry sector and provides analysis on competency level programs offered across the region. This section goes below the industry level review in order to provide detail on the education specializations offered in support of each industry. This analysis should be utilized in determining which sector and specialization (competency) may require new program offerings, whether additional credential levels should be deployed, and to what degree programs should be phased out in order to open capacity to serve more in-demand and growth employment sectors.



Methodology

For this analysis, CAEL and Avalanche used a combination of publicly available datasets listed below:

Education Asset Inventory

This inventory provides a review of secondary and postsecondary education, as well as training programs, identifying and inventorying programs which support the target industries in the region. We included program offerings, from secondary career and technical education (CTE) programs to industry certifications, associate's, bachelor's and up to doctorate level degrees. The data in this analysis is based on institutions' course catalogs and available online information and only includes program availability; student enrollment and outcome measures were not included in the inventory.

Integrated Postsecondary Education Data System (IPEDS)

Each year, the National Center for Education Statistics reports the number and types of degrees awarded by US postsecondary institutions. The survey, known as the Integrated Postsecondary Education Data System (IPEDS), collects data on the field of degree, the field of study, and the level of degree. IPEDS is an established system of interrelated surveys conducted annually by the US Department of Education's National Center for Education Statistics (NCES). IPEDS gathers information from every college, university, and technical and vocational institution that participates in the federal student financial aid programs.

Bureau of Labor Statistics (BLS)

Unemployment rates for counties are based on the Local Area Unemployment Statistics (LAUS) program. LAUS estimates are produced using models that incorporate data from the BLS Current Employment Statistics (CES) program, the BLS Quarterly Census of Employment and Wages (QCEW) program, the Census Bureau's American Community Survey (ACS), the BLS Current Population Survey (CPS), and individual state Unemployment Insurance (UI) data.

Competency Key

CAEL completed the full Education Asset Inventory for each target industry sector and grouped programs into larger competencies supporting skill development within each of the sectors. For reference, the Competency Key is included in Appendix A of this report. Please refer to these groupings when using the Education Asset for strategic investment and programmatic development purposes.



Elevate NEFL Target Clusters

These target clusters were used as the basis of the education and training program review, inventory, and analysis detailed in the following section of this report.

