

BAC YouScience Quarterly Report

Montgomery & Warren County Student Snapshot



Introduction

This report offers an update of the YouScience data from our Business Advisory Council's partner school districts, providing valuable insights into student aptitudes and career interests. Our goal is to present a clear regional picture of the emerging workforce pipeline across key in-demand sectors.

YouScience uses proprietary artificial intelligence to uncover student aptitudes, then connect these aptitudes to careers and educational pathways designed to help students discover their natural talents and connect them to personalized career and educational opportunities.

This overview shows the number of assessed students who show a natural aptitude and interest in our targeted industry clusters. This data highlights our region's students' awareness and exposure gaps, revealing areas of opportunity for improvement.

The BAC aims to inspire collaboration among industry, higher education, nonprofits, and K-12 schools to help close these gaps and better prepare students for future workforce needs in our region.

YouScience Results by Industry Sector

25-26 Students Assessed YTD (Grades 6-12)



of Individual Students Assessed
6,457

Advanced Manufacturing



Arts, Entertainment, & Design



Digital Technology



Energy & Natural Resources



Healthcare & Human Services



Management & Entrepreneurship



Public Service & Safety



Agriculture



Construction



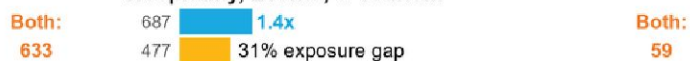
Education



Financial Services



Hospitality, Events, & Tourism



Marketing & Sales



Supply Chain & Transportation



Aptitude Interest

BAC YouScience Quarterly Report

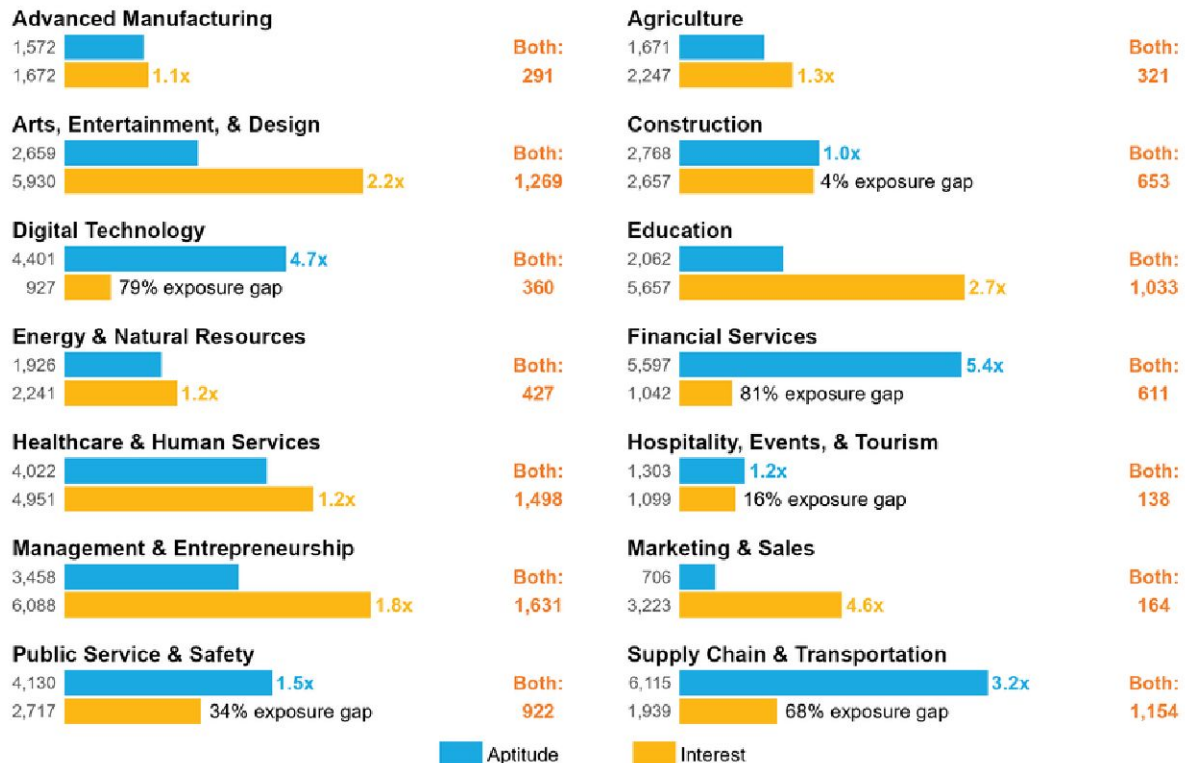
Montgomery & Warren County Student Snapshot

YouScience Results by Industry Sector

All Active Assessed Students Grades 6-12



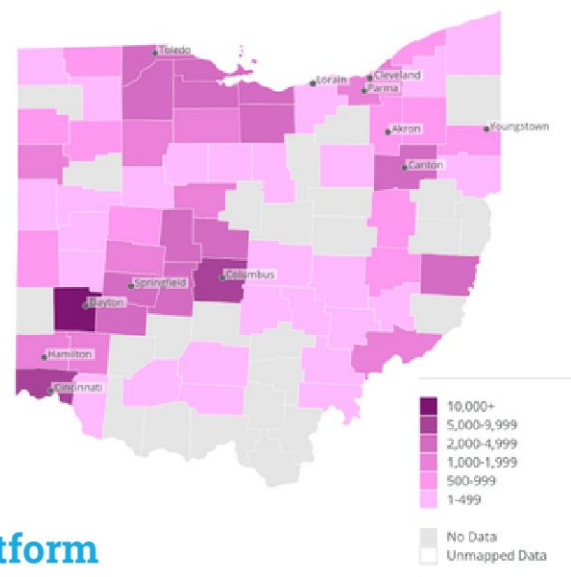
of Individual Students Assessed
14,130



Data pulled February 3, 2026

The Power of YouScience

YouScience matches students' aptitudes with 500+ careers, including their top 15-20 best fit careers. Career matches also include salary ranges, projected job openings, education requirements, day-in-the-life insight, and more. Results include language to assist with resumes, application essays, and interviews. This data helps make the case for private sector partners to get involved in K-12 career connections efforts.



1 Million students using the platform

139,000+ surveyed in Ohio across 164 districts

12,500+ surveyed* in Montgomery County *(BAC & Non-BAC)

YouScience Results by Industry Sector

All Active Assessed Students Grades 6-8



of Individual Students Assessed
4,338

Advanced Manufacturing



Both:
122

Agriculture



Both:
117

Arts, Entertainment, & Design



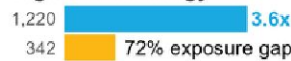
Both:
324

Construction



Both:
180

Digital Technology



Both:
99

Education



Both:
305

Energy & Natural Resources



Both:
158

Financial Services



Both:
148

Healthcare & Human Services



Both:
404

Hospitality, Events, & Tourism



Both:
48

Management & Entrepreneurship



Both:
534

Marketing & Sales



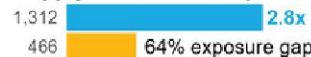
Both:
64

Public Service & Safety



Both:
183

Supply Chain & Transportation



Both:
162

 Aptitude  Interest

Data pulled February 3, 2026

Why Aptitudes Matter

Most career assessment tools rely solely on interest and personality surveys. YouScience combines psychometrically valid brain game-like exercises that uncover students' aptitudes along with an interest inventory.

Interest-only assessments reinforce biases and fail to give students an accurate picture of what they can do or will find satisfying.

An aptitude-based assessment coupled with career matching, lets students self-discover their talents, gain self awareness, and find career opportunities that align with those talents. This data strips away the biases and exposes students to careers they did not know about, did not think they could do, or perhaps, had never considered. It shows them careers they are wired to do well and will find satisfying because mastering the skills needed will be natural rather than stressful.

BAC YouScience Quarterly Report

Montgomery & Warren County Student Snapshot



YouScience Results by Industry Sector & Gender

All Active Assessed Students Grades 6-12



of Individual Students Assessed
12,920

Male

Advanced Manufacturing



Agriculture



Arts, Entertainment, & Design



Construction



Digital Technology



Education



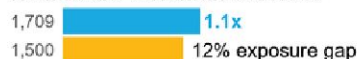
Energy & Natural Resources



Financial Services



Healthcare & Human Services



Hospitality, Events, & Tourism



Management & Entrepreneurship



Marketing & Sales



Public Service & Safety



Supply Chain & Transportation



Female

Advanced Manufacturing



Agriculture



Arts, Entertainment, & Design



Construction



Digital Technology



Education



Energy & Natural Resources



Financial Services



Healthcare & Human Services



Hospitality, Events, & Tourism



Management & Entrepreneurship



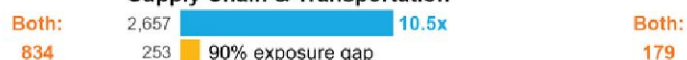
Marketing & Sales



Public Service & Safety



Supply Chain & Transportation



Aptitude

Interest

Career Connections Months of Action - Advanced Manufacturing Careers Spotlight

Our Business Advisory Council leverages a regional approach to support industry-specific outreach through our Career Connections Months of Action.

With our Months of Action focusing on Business and Management in February and Aerospace and Aviation in March, it is appropriate to dedicate this quarterly report to highlighting the advanced manufacturing occurring in our region. Our goal is to raise awareness about the in-demand careers available within this vital sector.

The following chart highlights selected manufacturing occupations, chosen in collaboration with DRMA and our local industry partners. While there is an abundance of data on this sector, this chart offers a unique look at our region's emerging talent pipeline.

YouScience Advanced Manufacturing Career Results

All Active Assessed Students Grades 6-12



of Individual Students Assessed
14,570

Aerospace Engineers (62 Annual Openings)



Both: 16

Coating, Painting, and Spraying Machine Setters, Operators, and Tenders (42 Annual Openings)



Both: 87

Computer Numerically Controlled Tool Programmers (20 Annual Openings)



Both: 15

Electrical and Electronic Engineering Technologists and Technicians (17 Annual Openings)



Both: 94

Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers (133 Annual Openings)



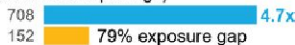
Both: 92

First-Line Supervisors of Production and Operating Workers (186 Annual Openings)



Both: 403

Industrial Engineering Technologists and Technicians (36 Annual Openings)



Both: 138

Industrial Engineers (109 Annual Openings)



Both: 264

Industrial Production Managers (56 Annual Openings)



Both: 484

Inspectors, Testers, Sorters, Samplers, and Weighers (207 Annual Openings)



Both: 69

Mechanical Drafters (8 Annual Openings)



Both: 119

Mechanical Engineering Technologists and Technicians (20 Annual Openings)



Both: 143

Mechanical Engineers (108 Annual Openings)



Both: 84

Tool and Die Makers (46 Annual Openings)



Both: 82

Weighers, Measurers, Checkers, and Samplers, Recordkeeping (14 Annual Openings)



Both: 79

Welders, Cutters, Solderers, and Brazers (94 Annual Openings)



Both: 42

 Aptitude  Interest

How We're Leveraging the Data

Our Business Advisory Council collaborates with K-12 schools, higher education, and industry partners to effectively activate students for career connection opportunities. Here are three key ways we're leveraging YouScience student data:

Career Exploration Events: Hosting events like **Kettering City Schools' YouScience Night**, where families can review students' assessment results and participate in hands-on activities with local employers. This approach helps students and families directly connect with career tech pathways and career opportunities suited to their aptitudes.

Targeted Recruitment for Summer and Afterschool Programs: Using YouScience data to micro-target students with specific aptitudes for programs like **Sinclair College's Automotive Summer Camp**. By sending personalized emails through districts, our BAC ensures that students who are well-suited for these opportunities are informed and encouraged to participate.

Program Alignment with Student Strengths: Collaborating with departments like **Sinclair's Built Environment Programs** to engage students with relevant aptitudes. By inviting families to events like the October Family Open House, students can explore educational pathways aligned with their unique strengths and potential career interests.

Action Steps

Help our Business Advisory Council close the exposure gap and reveal opportunities. As adults, we take for granted our understanding of the world, careers, and opportunities. Students in high school are learning what is possible – or haven't yet learned. One of the fundamental premises of education is to help all students expand their view of what is possible.

- Join our region's Business Advisory Council and support our local strategies connecting students to careers.
- Explore providing work-based learning opportunities to local students through partners like [SOCHE](#) and [YouthWorks](#).
- Help strengthen our local industry group K-12 efforts by partnering with [GDAHA](#), [DRMA](#), [Technology First](#), [DACC](#), [DDC](#), and more!

Timeline For Upcoming Reports

Each quarter, we'll release reports with updated student totals and insights on trends from local YouScience assessments, spotlighting a different industry sector each time. Look for our next report in April 2026.