

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
5,276

Advanced Manufacturing



Both:
98

Agriculture



Both:
105

Arts, Entertainment, & Design



Both:
395

Construction



Both:
194

Digital Technology



Both:
126

Education



Both:
377

Energy & Natural Resources



Both:
145

Financial Services



Both:
247

Healthcare & Human Services



Both:
505

Hospitality, Events, & Tourism



Both:
43

Management & Entrepreneurship



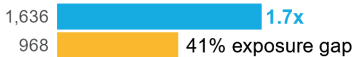
Both:
602

Marketing & Sales



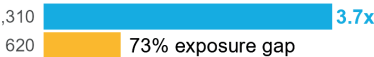
Both:
61

Public Service & Safety



Both:
331

Supply Chain & Transportation



Both:
348

Aptitude Interest

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YouScience Results by Industry Sector

All Active Assessed Students Grades 6-12



of Individual
Students Assessed
12,984

Advanced Manufacturing

1,411
1,535 **1.1x**

Both:
263

Agriculture

1,507
2,050 **1.4x**

Both:
294

Arts, Entertainment, & Design

2,432
5,437 **2.2x**

Both:
1,166

Construction

2,501 **1.0x**
2,438 3% exposure gap

Both:
594

Digital Technology

3,987 **4.7x**
854 79% exposure gap

Both:
336

Education

1,904
5,183 **2.7x**

Both:
954

Energy & Natural Resources

1,741
2,067 **1.2x**

Both:
390

Financial Services

5,163 **5.3x**
982 81% exposure gap

Both:
581

Healthcare & Human Services

3,703
4,538 **1.2x**

Both:
1,373

Hospitality, Events, & Tourism

1,190 **1.2x**
1,004 16% exposure gap

Both:
123

Management & Entrepreneurship

3,145
5,610 **1.8x**

Both:
1,492

Marketing & Sales

643
2,949 **4.6x**

Both:
145

Public Service & Safety

3,882 **1.5x**
2,511 35% exposure gap

Both:
878

Supply Chain & Transportation

5,743 **3.2x**
1,794 69% exposure gap

Both:
1,089

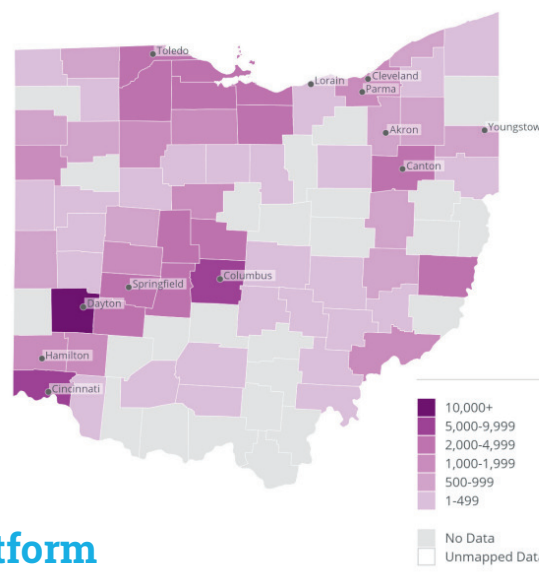
 Aptitude

 Interest

Data pulled November 12, 2025

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)

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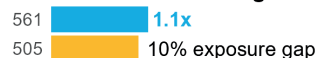
Montgomery & Warren County Student Snapshot

YouScience Results by Industry Sector All Active Assessed Students Grades 6-8



of Individual
Students Assessed
3,778

Advanced Manufacturing



Both:
103

Agriculture



Both:
102

Arts, Entertainment, & Design



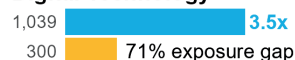
Both:
269

Construction



Both:
150

Digital Technology



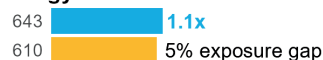
Both:
90

Education



Both:
270

Energy & Natural Resources



Both:
142

Financial Services



Both:
132

Healthcare & Human Services



Both:
339

Hospitality, Events, & Tourism



Both:
39

Management & Entrepreneurship



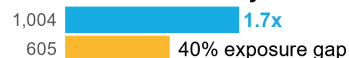
Both:
476

Marketing & Sales



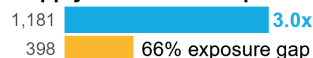
Both:
57

Public Service & Safety



Both:
163

Supply Chain & Transportation



Both:
144

 Aptitude

 Interest

Data pulled November 12, 2025

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.

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YouScience Results by Industry Sector & Ethnicity

All Active Assessed Students Grades 6-12



of Individual
Students Assessed
12,737

White

Advanced Manufacturing

963
1,048 **1.1x**

Agriculture

1,070
1,439 **1.3x**

Arts, Entertainment, & Design

1,854
3,278 **1.8x**

Construction

1,759 **1.0x**
1,702 3% exposure gap

Digital Technology

3,071 **5.9x**
519 83% exposure gap

Education

1,240
3,426 **2.8x**

Energy & Natural Resources

1,253
1,393 **1.1x**

Financial Services

2,797 **5.3x**
530 81% exposure gap

Healthcare & Human Services

2,339
3,141 **1.3x**

Hospitality, Events, & Tourism

742 **1.2x**
594 20% exposure gap

Management & Entrepreneurship

2,109
3,388 **1.6x**

Marketing & Sales

494
1,637 **3.3x**

Public Service & Safety

2,052 **1.3x**
1,580 23% exposure gap

Supply Chain & Transportation

3,142 **2.6x**
1,210 61% exposure gap

Asian, Black, Hispanic, Native American, Multiracial

Advanced Manufacturing

Both: 424
183 447 **1.1x** **Both:** 77

Agriculture

Both: 415
225 577 **1.4x** **Both:** 66

Arts, Entertainment, & Design

Both: 541
857 2,035 **3.8x** **Both:** 286

Construction

Both: 704 **1.0x**
448 683 3% exposure gap **Both:** 139

Digital Technology

Both: 833 **2.7x**
249 310 63% exposure gap **Both:** 76

Education

Both: 621
656 1,653 **2.7x** **Both:** 271

Energy & Natural Resources

Both: 467
279 632 **1.4x** **Both:** 105

Financial Services

Both: 2,242 **5.1x**
283 439 80% exposure gap **Both:** 289

Healthcare & Human Services

Both: 1,298
918 1,310 **1.0x** **Both:** 431

Hospitality, Events, & Tourism

Both: 421 **1.1x**
77 395 6% exposure gap **Both:** 45

Management & Entrepreneurship

Both: 957
973 2,135 **2.2x** **Both:** 484

Marketing & Sales

Both: 140
105 1,260 **9.0x** **Both:** 37

Public Service & Safety

Both: 1,767 **2.0x**
453 901 49% exposure gap **Both:** 415

Supply Chain & Transportation

Both: 2,496 **4.5x**
659 549 78% exposure gap **Both:** 409

 Aptitude

 Interest

Data pulled November 12, 2025

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Career Connections Months of Action - Healthcare Careers Spotlight

Our Business Advisory Council leverages a regional approach to support industry-specific outreach through our Career Connections Months of Action. November marks Health Professions Month in our region, where we focus on raising awareness about in-demand healthcare careers.

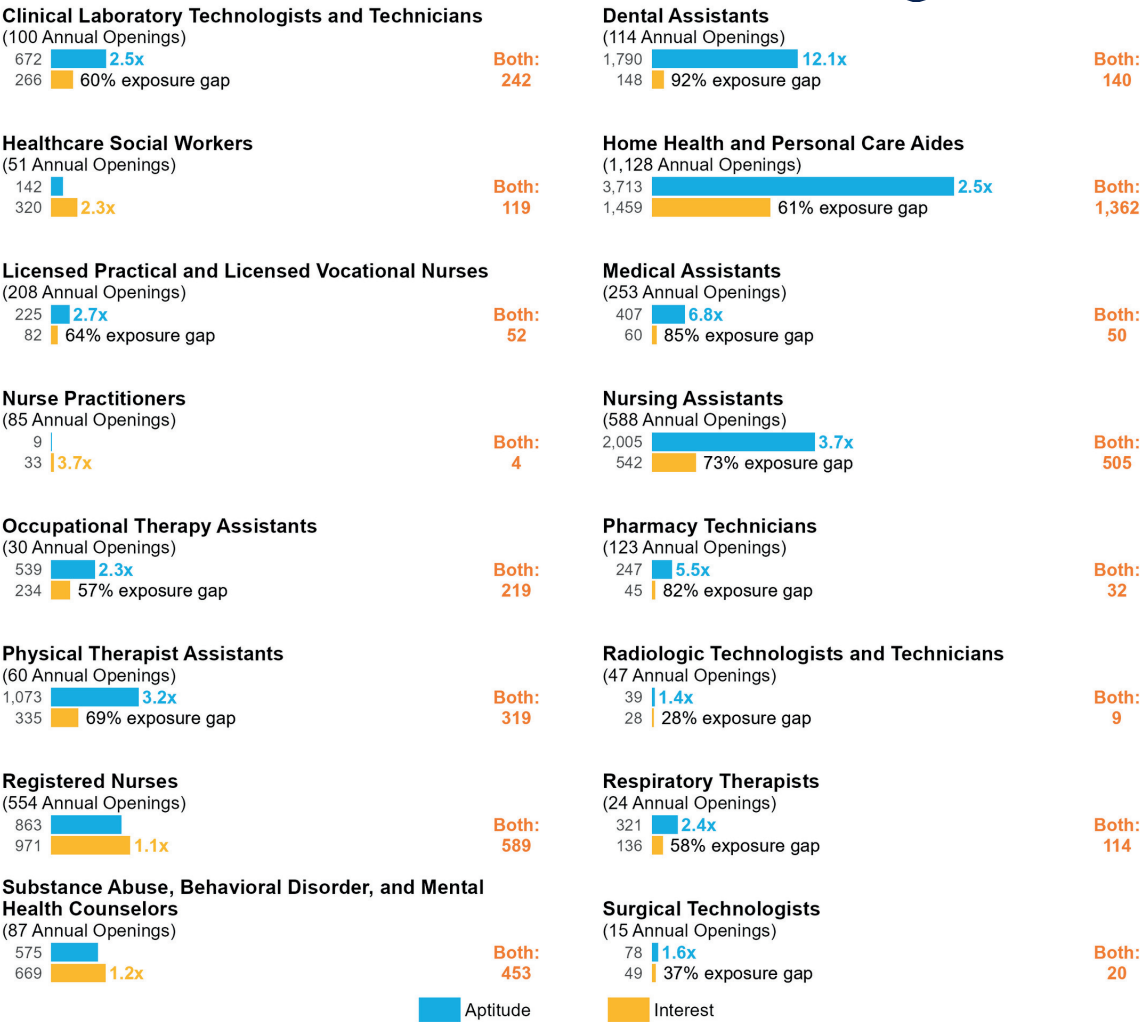
The following chart highlights selected healthcare occupations, chosen in collaboration with GDAHA, Premier Health, Kettering Health Network, and Sinclair College's Health Science programs. While there is an abundance of data on this sector, this chart offers a unique look at our region's emerging talent pipeline.

YouScience Healthcare Career Results

All Active Assessed Students Grades 6-12



of Individual Students Assessed
13,351



Data pulled November 12, 2025
Annual Openings are from ODJFS's 2022-2032 Occupational Employment Projections for Dayton MSA

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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 February 2026.

Questions? Contact thomas.jenkins@mcesc.org.