

# ***Logistics Engineering Technician – Work Study***

## **Educator Bus Tour Survey Results**

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November, 2017

This material is based on work supported by the National Science Foundation grant #1700520. The opinions, findings, conclusions, or recommendations expressed in this material are those of the authors and do not reflect the position or policies of the National Science Foundation.

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# Background

Columbus State facilitated a full-day interactive bus tour on October 31, 2017 to provide an opportunity for decision-makers and influencers from regional high schools to learn more about the growing fields of advanced manufacturing, cybersecurity, logistics, and alternative energy automotive service/repair. Participants received tours at Cardinal Health, City of Dublin Fleet Management, and Honda Manufacturing and engaged in discussions with industry representatives at these facilities. In all, 25 individuals including, principals, assistant principals, directors, coordinators, teachers, career specialists and others (Table 1) representing 14 school districts in the central Ohio region (Table 2) participated in the tour. A copy of the invitation can be found in Appendix A.

Principal/Assistant Principal	10
Director	4
Coordinator	3
Teacher	3
Career Specialist	2
Superintendent	1
Academic Officer	1
Guidance Counselor	1

**Table 1.** Roles represented by the 25 participants

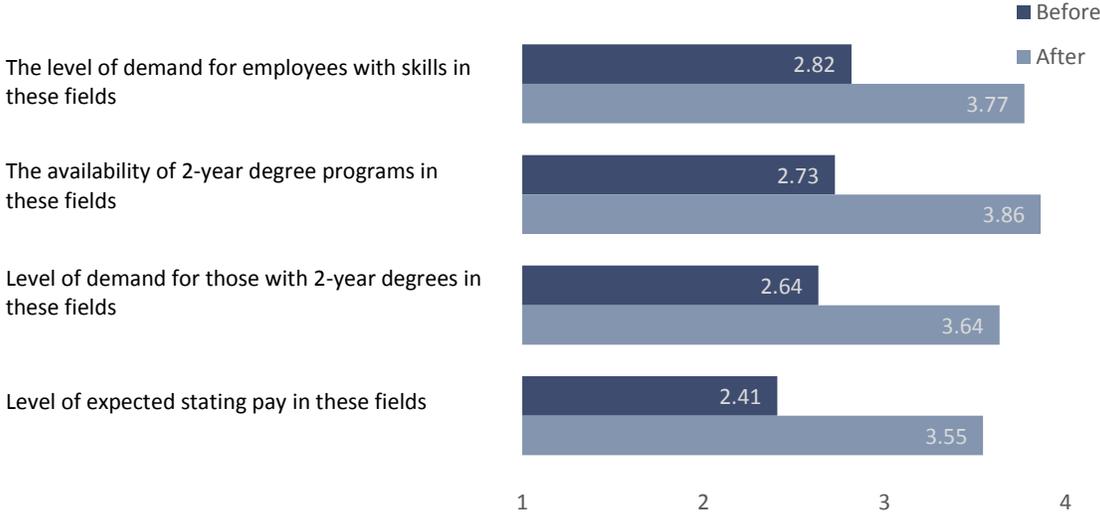
Bexley City Schools	Licking Heights Local Schools
Columbus City Schools	Metro Schools
Concept School District	New Albany-Plain Local School District
Dublin City Schools	Reynoldsburg City Schools
Eastland-Fairfield Career & Technical Schools	South-Western City Schools
Fairbanks Local Schools	Triad Community Unit School District 2
Gahanna Jefferson Public Schools	Westerville City Schools

**Table 2.** Districts represented by the 25 participants

This brief report summarizes the results of an evaluation survey completed by 23 (or 92%) of the 25 participants at the end of the day. A copy of the day’s agenda is included in Appendix B and the evaluation survey is provided in Appendix C.

# Findings

The bus tour increased participant awareness regarding the level of employer demand, the availability of 2-year degree programs, and the starting pay in these fields (Figure 1). Additionally, the level of industry demand and need was the theme of nearly every response to an open-ended question asking participants to identify the fact/trend that most surprised them (Table 3).

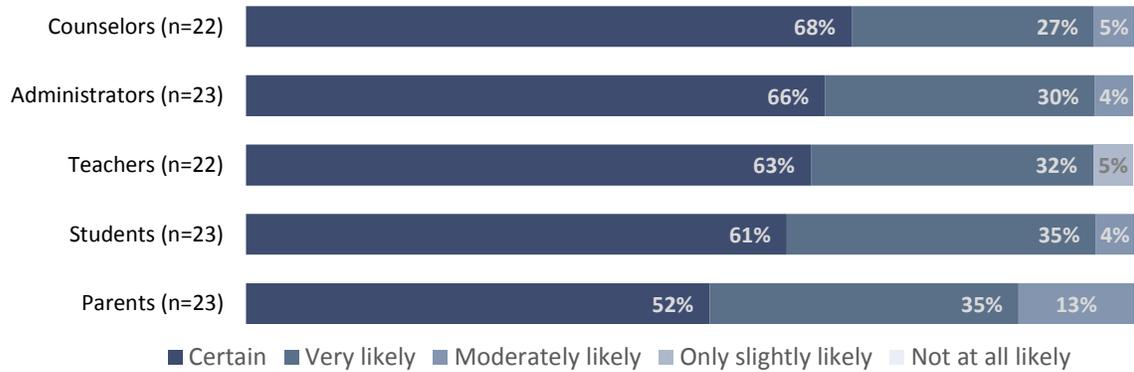


**Figure 1.** Mean awareness ratings based on self-perceived levels before, and then after, the bus tour. (Scale is from 1=Not aware to 4 = Fully aware; n=22)

Theme	Comment
<b>Level of industry need/demand</b>	<ul style="list-style-type: none"> <li>Actual gap in jobs/workforce</li> <li>Large number of job openings across all industries</li> <li>Logistics job openings</li> <li>Opportunity in Logistics field.</li> <li>The vast gap between job growth &amp; population growth</li> <li>The amount of need in the area</li> <li>The demand for 2-year degree holders</li> </ul>
<b>Other</b>	<ul style="list-style-type: none"> <li>Number of electric cars on the horizon in Columbus</li> </ul>

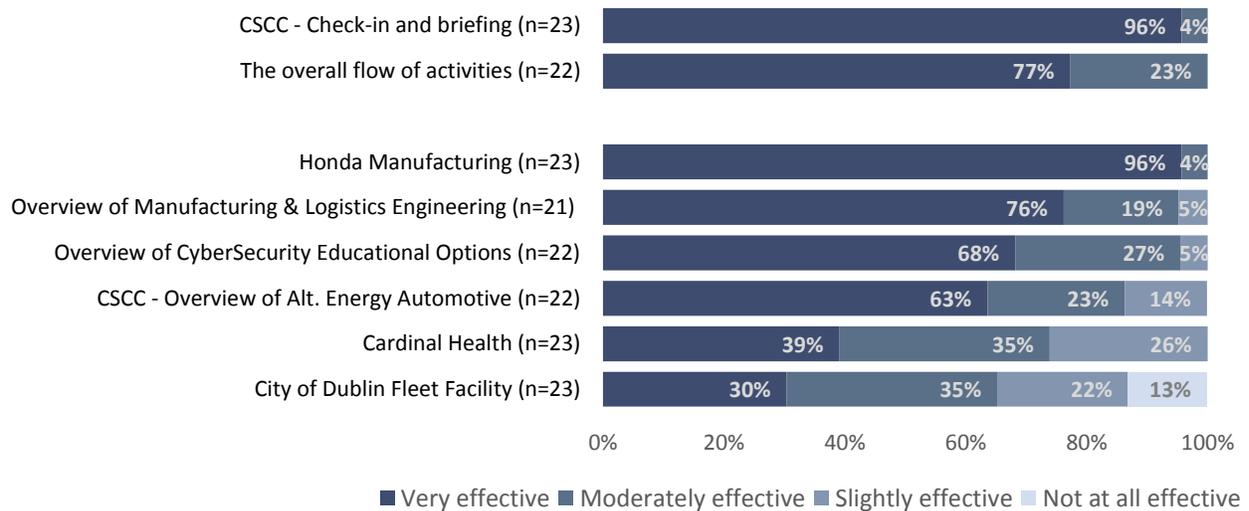
**Table 3.** Open-ended responses to the question “What current employment fact/trend was most surprising to you?”

Most participants indicated that they were “certain” or “very likely” to share what they had learned with staff, teachers, students, and parents (Figure 2).



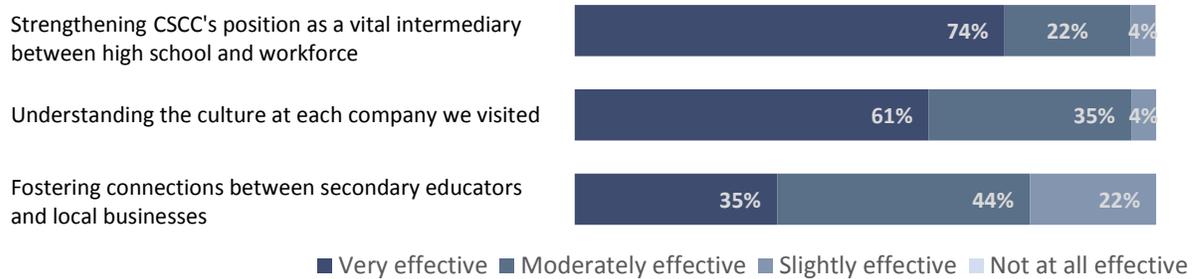
**Figure 2.** Response frequencies to the question, “How likely are you to share what you learned today with the following audience?”

With regards to the various agenda activities (Figure 3), the check-in process, initial debriefing, and overall flow of activities were rated as “very effective” by most participants. The individual bus tour activities were rated as either “very effective” or “moderately effective” by most participants. There was, however, some variation in ratings among the activities; the Honda tour was rated as the most effective while the Cardinal Health and City of Dublin Fleet Facility activities received mixed ratings.



**Figure 3.** Response frequencies to the question, “Overall, how would you rate the effectiveness of each aspect of the day?”

In terms of ratings pertaining to the goals of the bus tour (Figure 4), most respondents regarded it as being “very” or “moderately” effective. The goal of fostering connections between educators and local businesses received a few low ratings but this was certainly the most challenging of the goals for the bus tour. Several improvement suggestions in Table 4 point to opportunities for meeting this challenge even more effectively for future bus tours.



**Figure 4.** Response frequencies to the question, “Overall, how would you rate the effectiveness of each aspect of the day?” (n=23)

Theme	Comment
<b>Would like more information</b>	<ul style="list-style-type: none"> <li>• I am still not sure WHO to contact at each company to form the relationship with our high school.</li> <li>• Ensure each aspect focusses on factors, strategies, skill that can be implemented at the building level.</li> <li>• More info about providing opportunities for high school students (how do they get experience opportunities).</li> </ul>
<b>More chances to interact and discuss</b>	<ul style="list-style-type: none"> <li>• Add time for schools to brainstorm implementation ideas/share.</li> <li>• If teachers are brought to participate there should be more emphasis on partnerships and opportunities for K-12 students.</li> <li>• Greater discussion of what educators should do to prepare kids for industry.</li> </ul>
<b>Site Specific</b>	<ul style="list-style-type: none"> <li>• Make City of Dublin fleet more focused on audience - give tour of facility.</li> <li>• Cardinal Health seems prime to start apprenticeships/ internships. Perhaps a greater focus on points of specific collaboration with k-12.</li> <li>• Making sure partners are prepared for the audience (What to talk about with who).</li> <li>• The "Loop" around Cardinal Health lobby was not useful - Would like more inside view of company.</li> <li>• Time spent at Cardinal was OK, but tour was time (not well) spent.</li> <li>• I didn't feel that Dublin Maintenance had entry level positions for HS partnerships.</li> <li>• Tour was productive at MFG company i.e. , Worthington or Superior tool.</li> <li>• Though beneficial learning about Dublin it was not as beneficial as hoped. Learning that entry level positions require 5-7 years of experience left me wondering how this could connect with HS.</li> </ul>
<b>Misc.</b>	<ul style="list-style-type: none"> <li>• Bus information sessions hard to hear.</li> <li>• Turn on the heat!</li> <li>• Interactive things on seeing hands-on.</li> <li>• Add hands on experiences for participants.</li> <li>• The bus presentations would be fine, but the audio system should be enhanced.</li> </ul>

**Table 4.** Open-ended responses to the question “What are the 1 or 2 most impactful changes or improvements you would recommend?”

## Appendix A: 2017 Educator Bus Tour - Invitation

COLUMBUS STATE  
COMMUNITY COLLEGE

*You're invited to the*

# 2017 Educator Bus Tour

Join Columbus State on this interactive tour to meet with local employers and learn how you can help students access high-paying careers in STEM fields.

**Tuesday, October 31**

**[7:30 a.m. – 2:15 p.m.]**



September 1, 2017

Name  
Title  
School  
Address  
City, State Zip

Dear (First name):

Welcome back! I hope that the beginning of your school year at <<SCHOOL>> is off to a smooth start.

Columbus State Community College has a proud tradition of working closely with local employers and industries. The skills needed by the Central Ohio region's workforce are changing more rapidly than ever. Through Career Pathways and Work-based Learning initiatives, Columbus State has strengthened its commitment to serving the talent needs of local industry and helping students obtain high-wage careers.

One way that Columbus State is strengthening relationships with local employers is through our work with the National Science Foundation (NSF). We currently lead eight separate National Science Foundation awards totaling more than \$5.6 million, more than any other community college in the nation. Each of our NSF projects integrates employer partnerships to develop pathways for students into high-wage, high-demand careers. Four of our most mature projects are in the areas of advanced manufacturing, alternative energy automotive, cybersecurity and logistics engineering.

I invite you to join us at our **2017 Educator Bus Tour** on Tuesday, October 31, from [X-X p.m.] to learn more about ways your school can partner with industry and help your students access high-demand careers. Leaving from the Columbus State Dublin Regional Learning Center, a hydrogen-fueled bus will take you to three of our valued employer partner locations, where you will have the opportunity to experience the work environment and speak directly with industry experts. Featured partners will include:

- Honda Manufacturing
- Cardinal Health
- City of Dublin Fleet Maintenance Facility

There are a limited number of spaces available on the bus, so please sign up now to reserve a spot. Registration ends October 10. Please RSVP (confirmations and regrets) at [csc.edu/RSVP](https://csc.edu/RSVP) and feel free to invite a guest to join you.

Sincerely,

Angelo J. Frole

Dean, Business and Engineering Technologies

# Appendix B : 2017 Educator Bus Tour - Agenda



## 2017 Educator Bus Tour

Tuesday, October 31, 2017

Columbus State – Dublin Regional Learning Center

<b>Time</b>	<b>Activity</b>	<b>Speaker</b>
7:30am	Registration & Networking	
7:45am	Introduction & Agenda Preview	Todd Warner Scott Wegeng
8:00am	Columbus Region Workforce Trends	Tim Harman, Columbus 2020
8:30am	Travel to Cardinal Health	Larry McWherter
8:45am	Tour of Cardinal Health and Company Speakers	Cardinal Health Representatives
10:15am	Travel to City of Dublin Fleet Facility	Steve Levin
10:30am	Tour of City of Dublin Fleet Facility and Company Speakers	City of Dublin Fleet Representatives
11:30am	Travel to Honda	
12:00pm	Lunch and Manufacturing/Logistics Overview	Honda Representatives Mark Gerko Jeremy Banta
12:50pm	Tour of Honda Marysville Auto Plant	Honda Representatives
1:45pm	Debrief	Honda Representatives
2:15pm	Travel to CSCC Dublin	

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### BUSINESS PROGRAMS & ENGINEERING TECHNOLOGIES

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# Appendix C: 2017- Educator Bus Tour | Evaluation

BEFORE THE TOUR				AFTER THE TOUR			
Not Aware	Slightly aware	Moderately aware	Fully aware	Not Aware	Slightly aware	Moderately aware	Fully aware
What current employment fact/trend was most surprising to you? (Could be one from above or something else)							

How likely are you to share what you learned today with the following audiences?

	Not at all likely	Only slightly likely	Moderately likely	Very likely	Certain
Teachers					
Administrators					
Counselors					
Students					
Parents					

Overall, how would you rate the effectiveness of each aspect of the day below?

	Not at all effective	Slightly effective	Moderately effective	Very effective
Agenda Activities	CSCC - Check-in and briefing			
	Travel to Cardinal Health - Overview of CyberSecurity Educational Options			
	Cardinal Health			
	CSCC - Overview of Alt. Energy Automotive			
	City of Dublin Fleet Facility			
	CSCC - Overview of Manufacturing & Logistics Engineering			
	Honda Manufacturing			
	The overall flow of activities			
Event Goals	Understanding the culture at each company we visited			
	Fostering connections between secondary educators and local businesses			
	Strengthening Columbus State's position as a vital intermediary between high school and workforce			
What are the 1 or 2 most impactful changes/improvements you would recommend?				