

Proposal SBD <b>WF-05531</b>				
Name of Entity	FEIN	Record Type	Proposal Status	Contact
Pinellas Technical College	[REDACTED]	Workforce	In Review	Carson Bowm....

Details	SBD Processing	Related		
<p>Entity Information</p> <p>Owner  <a href="#">Carson Bowman (/lightning/r/Name/0058y000001y4b3AAA/view)</a></p> <p>Proposal Name            WF-05531</p> <p>Name of Entity <b>1</b>            Pinellas Technical College</p> <p>FEIN            [REDACTED]</p> <p>Contact  <a href="#">Carson Bowman (/lightning/r/Contact/0038y000008hPKTAAU/view)</a></p> <p>Secondary Contact Name            Dr. Jake Prokop</p> <p>Second Contact Title            Director</p> <p>Second Contact Phone            (727) 538-7167 (tel:7275387167)</p> <p>Azure Folder Name            WF-05531a9G8y00000003XC</p> <p>County  <a href="#">Pinellas (/lightning/r/County__c/a0Zf4000001X3KIEAK/view)</a></p> <p>RAO <b>1</b>            No</p> <p>Program Requirements</p> <p>Training Title and Description <b>1</b>            Heavy Equipment Service Technician Training Program.</p> <p>The workforce training program, Heavy Equipment Service Technician, is in development to meet the labor force needs of the Tampa Bay area. According to the Economic Development and Employer Planning System the nearest program is over 90 miles away from the Tampa Bay Area. The data also states that from 2020 to 2021 there were only 25 Heavy Equipment graduates in the state, falling short of meeting the increasing demand, which is evidence by the projected annual openings of 940 vacant Heavy Equipment Mechanic positions (statewide). According to the BLS, the employment of heavy equipment service technicians is projected to grow by 8.8% from 2019 to 2029 statewide and 11.9% in Pinellas County. The demand for heavy equipment service technicians in Tampa Bay is on a continuous rise due to the increasing investment in infrastructure development, particularly in transportation and energy sectors. In addition, according to the Florida Chamber of Commerce, the state of Florida's population has increased 18% (405,000) from April 2021 to April 2023 and is projected to increase another 2.8 million by 2030. This increase will cause additional demand for construction infrastructure to support raising the population. To meet this demand, Pinellas Technical College is seeking funding to add a Heavy Equipment Service Technician Training Program and a dedicated training facility. The program will prepare individuals to apply technical knowledge and skills in the field maintenance and repair of heavy equipment, and in the general maintenance and overhaul of such equipment. The program is developed to meet the needs of regional employers. Coordinating with regional business partners and advisory members we have developed a program that includes diesel engines diagnostics &amp; preventative maintenance, hydraulics, electronic systems, heating and air conditioning, brakes, steering and suspension, drivetrain, and powertrain. The program will prepare the public by providing them with a comprehensive education on all aspects of heavy equipment maintenance and repair. By the end of the program, participants will be prepared for entry level occupations within the Heavy Equipment industry. This facility will also make it possible for Pinellas Technical College to increase the number of apprenticeships and other programs offered, more specifically Industry Machinery Service and Hydraulics Apprenticeships.</p> <p>Support Description <b>1</b>            Pinellas Technical College Clearwater Campus offers a multitude of programs that support local economic development as well as articulate to the state college system. This proposal will increase the college's capacity to meet its mission and provide a new career preparatory program for the Tampa Bay area.</p> <p>Transferable Skills Description <b>1</b>            The training program will provide participants with transferable, sustainable workforce skills applicable to more than a single employer by offering a comprehensive training program. These skills can be applied across a wide range of equipment manufacturers and industries, including construction, mining, agriculture, transportation, and more. All our programs emphasize the importance of communication skills, teamwork, and problem-solving abilities, which are critical skills that are applicable across various job roles and employers. The skills gained from this program will be applicable to employers such as City of Clearwater, City of Saint Petersburg, United Rentals, Hercs Rentals, and Dobbs Equipment. This list also includes industries such as highway construction, crane operators, emergency preparedness/response teams, offshore towing &amp; dredging.</p> <p>Support Public Program(s) <b>1</b>            This proposal will support a program that is offered to the public through Pinellas Technical College. The program provides open enrollment and open access to the public. Pinellas Technical College (PTC) serves adults and dual enrolled high school students from the age of 16+. In addition, PTC also hosts apprenticeships and community short courses. This facility will also make it possible for Pinellas Technical College to increase the number of workforce training offered to the public including industry machinery maintenance and Hydraulics service.</p> <p>Description of Criteria Match <b>1</b>            This proposal is based on criteria established by the Florida Department of Education and the State Curriculum Frameworks for the Heavy Equipment Service Technician (T440100).            Courses:            Diesel Engine Mechanic/Technician Helper            Diesel Electrical and Electronics Technician            Diesel Engine Preventative Maintenance Technician            Diesel Engine Technician            Diesel Brakes/Fluid Technician            Diesel Heating and Air Conditioning Technician            Diesel Steering and Suspension Technician            Diesel Drivetrain Technician            Diesel Power Train Technician</p> <p>The program framework is attached in the supporting documents.</p> <p>Demand Occupation Lists <b>1</b>            Yes</p> <p>Demand Occupation Lists Description            This proposal aligns with regional targeted occupations of "Bus and Truck Mechanics and Diesel Engine Specialists", "Industrial Machinery Repair", as well as the "Mobile Heavy Equipment Mechanics, Except Engines".</p>			<p>Proposal Status            In Review</p> <p>Stage <b>1</b>            Proposed</p> <p>Not exclude unemployed or underemployed <b>1</b>            Yes</p> <p>Economic Opportunity Description <b>1</b>            This program will enhance workforce training by leading to the creation of a skilled talent pool that can contribute to the regional and state economy and expanding the capacity of the college to graduate an additional 20 students per year with skills in diesel engines diagnostics &amp; preventative maintenance, hydraulics, electronic systems, heating and air conditioning, brakes, steering and suspension, drivetrain, and powertrain. These new technicians will earn a mean salary of \$23.66 - \$25.12 per hour up on entry and approximately an additional \$4.00 per hour once they gain experience. Completion and placement of graduates will be used as metrics for program success in accordance with the college's accreditation standards. As per COE accreditation standards, success will be measured by tracking the number of graduates who secure employment and their feedback on the effectiveness of our program in helping them achieve their career goals. Ultimately, our program aims to enhance economic mobility and create sustainable career paths for participants while supporting the development of infrastructure with the Tampa Bay community.</p> <p>FL Targeted Industries <b>1</b>            Yes</p> <p>FL Targeted Industries Description <b>1</b>            Transportation, Distribution &amp; Logistics            Architecture &amp; Construction            Manufacturing</p> <p>Heavy Equipment Service technicians are needed for all construction projects. The targeted industries (aerospace, advanced manufacturing, business &amp; finance, defense &amp; homeland security, information technology, and life science/medical) will all use heavy equipment to build their new facilities, roads, sewer, cable, etc.</p> <p>Local Match Amount <b>1</b>            No</p> <p>Local Match Amount Details <b>1</b></p>	<p>Upload Files</p> <p>Previously Uploa</p> <p>Heavy Equipr            undefinedApp            undefinedApp            undefinedApp            undefinedAut            undefinedHE <b>1</b>            undefinedHE <b>1</b>            undefinedSun            undefinedSup</p> <p>Contr</p> <p>Contract Nu</p> <p>Activity</p> <p>Upcomi</p> <p>SB</p> <p>SB</p>

Program Specifics  
**WF-05531**  
 Existing Program Expansion **1**  
 No  
 Name of Entity FEIN Record Type Proposal Status Contact  
 Pinellas Technical College ██████████ Workforce In Review Carson Bowm....

Length of Program **1**  
 Heavy Equipment Service Technician (1800/18 months)  
 Students Begin Date: 1/2026  
 End Date: N/A\*

Existing Program Expansion Description **1**  
 Training Delivery Description **1**  
 Training will be delivered in-person at the Pinellas Technical College Clearwater Campus.  
 Program Sustainability Description **1**  
 Pinellas County annual workforce funding will be used to support the program along with other (Perkins, CAPE, etc.) support. Since this will be a PSAV program, tuition will be paid by students to complete the sustainability model.  
 Project Ready to Commence **1**  
 Project Not Ready To Commence Details **1**

\*This project includes construction of a building. The program will begin once the certificate of occupancy has been issued. The training will be perpetual as this is a permanent addition to the Pinellas Technical College program catalog.  
 Each year community members will have 5 enrollment opportunities to start the program. These enrollment terms are in August, October, January, March, and May. The program will maintain 20 students per instructor. Students will begin completing the program 18 months after enrollment. There will be approximately 20 graduates per year. Once this graduation cycle begins, the program will continue to produce 20 new technicians annually at various points throughout the year.  
 Number Enrolled **1**  
 40  
 Number Completers **1**  
 20  
 Certifications, degrees with CIP codes  
 Program completers will be eligible for a Postsecondary Adult Vocational (PSAV) Diploma from the State of Florida. In addition, students will be eligible to earn the Automotive Service Excellence Truck Certifications: T Series. Related CIPs are: 47.0302 - Heavy Equipment Technicians (70%) and 47.0613 Medium/Heavy Vehicle Truck Technology/Technician (30%).  
 Program Begin Date **1**  
 1/1/2026  
 Program End Date **1**  
 12/1/2026  
 Additional Information **1**

**Program Budget**  
 Requested Total **1**  
 \$3,961,853.00  
 Source - City / County **1**  
 \$0.00  
 Source - Private **1**  
 \$0.00  
 Source - Other **1**  
 \$0.00  
 Source - Other Details **1**  
 N/A  
 Source - Total  
 \$0  
 Detailed Budget Narrative **1**  
 Description attached.

Cost - Equipment **1**  
 \$1,002,800.00  
 Cost - Personnel **1**  
 \$0.00  
 Cost - Facilities **1**  
 \$2,796,812.00  
 Cost - Training Materials **1**  
 \$162,241.00  
 Cost - Tuition **1**  
 \$0.00  
 Cost - Other **1**  
 \$0.00  
 Cost - Other Details **1**  
 N/A  
 Cost - Total **1**  
 \$3,961,853

**Approvals and Authority**  
 Authorized signatory on Board's behalf **1**  
 Approvals Needed **1**  
 The School Board of Pinellas County would need to give a final approval of the proposal.  
 Meeting Schedule **1**  
 The school board of Pinellas County meets the second and fourth Tuesday of each month. Dates:  
 4/11/23  
 4/25/23  
 5/9/23  
 6/13/23  
 6/27/23  
 7/11/23  
 8/1/23  
 8/22/23  
 9/12/23  
 9/26/23  
 10/10/23  
 10/24/23  
 11/14/23  
 Meeting Notice Days **1**  
 N/A  
 Authority Proof **1**

Attestation Name of Entity **1**  
 Pinellas County Schools  
 Attestation Name and Title of Auth Rep **1**  
 See Attachment  
 Attestation Representative Signature **1**  
 See Attachment  
 Attestation Signature Date **1**  
 5/31/2023

**Award Year Information**  
 FY22 **1**  
  
 FY23 **1**  
  
 FY24 **1**  
  
 Created By  
 Carson Bowman (/lightning/r/User/0058y000001y4b3AAA/view), 3/31/2023 2:18 PM  
 Record Type  
 Workforce

FY25 **1**  
  
 FY26 **1**  
  
 Last Modified By  
 Mike Mueller (/lightning/r/User/0058y000001x6MqAAI/view), 6/14/2023 8:10 AM

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# Heavy Equipment Training Program

Clearwater Campus Proposal

May 19, 2023



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# Pinellas Technical College Clearwater Campus

## Heavy Equipment Service Technician Training Facility Extension Summary

Jake Prokop, Director

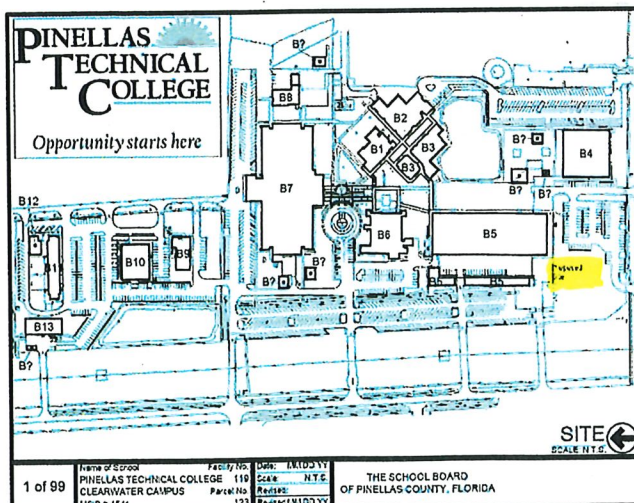
In response to the growing need for infrastructure repair and new construction, Pinellas Technical College proposes the building of a new facility specifically designed to train workers for employment as heavy (i.e. construction) equipment service technicians. The idea has been spurred through conversations with state government officials representing our geographical area and has garnered support from Florida State House members.

Upon a comprehensive review of the required specifications for a quality facility, including a tour of an established Heavy Equipment training program at South Georgia College the following recommendations are being made to Representative DiCeglie.

### Facility Description

The facility would be located on the south west corner of the campus, adjacent to the current diesel shop. Facility initial requirements are as follows:

- A four-bay garage type facility with a hydraulics training room
- Bays need to be capable of housing heavy equipment such as an excavator and a front-end loader
- Roll up doors required
- Hydraulics training room would be the size of two classrooms
- Air lines are required (plumbed from existing compressors)
- Ventilation/circulation fans are required in the shop area
- Roof structure same as current diesel facility with an overhead hoist
- Heavy slab with rebar required to support the weight of machinery and lifting equipment
- Slab for outdoor equipment maintenance is preferred



### Total Training Center Cost

Facility Cost: \$2,796,812

Hydraulic Trainers Cost: \$162,241

Heavy Equipment Cost: \$1,002,800

TOTAL Estimated Cost: \$3,961,853

## Estimated Facility Cost

This project was reviewed by the Pinellas County Schools Facilities department and based on the specifications, the total cost for is estimated at \$3,961,853. (see appendix A for details)

## Estimated Training Equipment Cost

The training program will require two equipment categories, (a) hydraulic training systems and (b) heavy equipment.

- A. The hydraulic training and troubleshooting equipment have a cost of \$162,241 as evidenced by the attached quote from Jaeger corporation. Jaeger corporation is a well-respected industrial training equipment provider and is used as a vendor all over the State of Florida. See appendix B for details)
- B. The heavy equipment will cost \$1,002,800. The quote has been provided by Dobb's Equipment. (see appendix C for details).

## About Pinellas Technical College – Clearwater Campus

Pinellas Technical College, which has enjoyed a positive leadership role in the state of Florida in the area of technical training, has two top-quality area campuses.

The Clearwater campus, formerly known as the Technical Education Center and Pinellas Vocational Technical Institute, was the first school in the state to be designated a post-secondary area technical center. Its 40-acre campus has increased from one to nineteen buildings. The first building was accepted for occupancy June 1, 1963. The school was opened for classes in September 1963. In 1990, the campus became known as the Pinellas Technical Education Centers (PTEC).

In August 2014, the school board of the Pinellas County School district voted to change the name of Pinellas Technical Education Center to Pinellas Technical College (PTC).

Pinellas Technical College students at are expected to be active members in SkillsUSA, a career technical student organization (CTSO). SkillsUSA encourages community service and professional development of leadership and technical skills. Skill and leadership contests are held annually beginning at the local level and continuing through international competition for selected events. Other CTSO organizations are available for student participation in addition to SkillsUSA.

Pinellas Technical College alumni are in demand in the local job market. Business and industry continue to request Pinellas Technical College graduates because of their quality technical skills. The PTC Alumni Association mission statement is to actively recruit prospective and former students, to promote academic scholarship and workplace readiness, to improve student retention through mentorship, and to facilitate social and professional networking that fosters life-long engagement in campus initiatives.

Pinellas Technical College offers numerous technical programs and short-term training. Evaluating the needs of industry is a continuous process, and programs are established to satisfy industry's training requirements. The college is a public, co-educational and equal opportunity facilities legally authorized by the School Board of Pinellas County and the Florida State Department of Education to provide occupational education beyond high school. Pinellas Technical College is committed to providing quality educational opportunities that meet the changing labor force needs of business and industry.

# Appendix A

## Supplemental Project Narrative

### Program Requirements

#### **A. Provide the title and a detailed description of the proposed workforce training.**

Heavy Equipment Service Technician Training Program.

The workforce training program, Heavy Equipment Service Technician, is in development to meet the labor force needs of the Tampa Bay area. According to the Economic Development and Employer Planning System the nearest program is over 90 miles away from the Tampa Bay Area. The data also states that from 2020 to 2021 there were only 25 Heavy Equipment graduates in the state, falling short of meeting the increasing demand, which is evidence by the projected annual openings of 940 vacant Heavy Equipment Mechanic positions (statewide). According to the BLS, the employment of heavy equipment service technicians is projected to grow by 8.8% from 2019 to 2029 statewide and 11.9% in Pinellas County. The demand for heavy equipment service technicians in Tampa Bay is on a continuous rise due to the increasing investment in infrastructure development, particularly in transportation and energy sectors. In addition, according to the Florida Chamber of Commerce, the state of Florida's population has increased 18% (405,000) from April 2021 to April 2023 and is projected to increase another 2.8 million by 2030. This increase will cause additional demand for construction infrastructure to support raising the population. To meet this demand, Pinellas Technical College is seeking funding to add a Heavy Equipment Service Technician Training Program and a dedicated training facility. The program will prepare individuals to apply technical knowledge and skills in the field maintenance and repair of heavy equipment, and in the general maintenance and overhaul of such equipment. The program is developed to meet the needs of regional employers. Coordinating with regional business partners and advisory members we have developed a program that includes diesel engines, hydraulics, electronic systems, HVAC, preventive maintenance, and computer diagnostics. The program will prepare the public by providing them with a comprehensive education on all aspects of heavy equipment maintenance and repair. By the end of the program, participants will be prepared for entry level occupations within the Heavy Equipment industry. This facility will also make it possible for Pinellas Technical College to increase the number of apprenticeships and other programs offered, more specifically Industry Machinery Service and Hydraulics Apprenticeships.

#### **B. Describe how this proposal supports programs at state colleges or state technical centers.**

Pinellas Technical College Clearwater Campus offers a multitude of programs that support local economic development as well as articulate to the state college system. This proposal will increase the college's capacity to meet its mission and provide a new career preparatory program for the Tampa Bay area.



**C. Describe how this proposal provides participants transferable, sustainable workforce skills applicable to more than a single employer.**

The training program will provide participants with transferable, sustainable workforce skills applicable to more than a single employer by offering a comprehensive training program. These skills can be applied across a wide range of equipment manufacturers and industries, including construction, mining, agriculture, transportation, and more. All our programs emphasize the importance of communication skills, teamwork, and problem-solving abilities, which are critical skills that are applicable across various job roles and employers. The skills gained from this program will be applicable to employers such as City of Clearwater, City of Saint Petersburg, United Rentals, Hercs Rentals, and Dobbs Equipment. This list also includes industries such as highway construction, crane operators, emergency preparedness/response teams, offshore towing & dredging.

**D. Describe how this proposal supports a program(s) that is offered to the public?**

This proposal will support a program that is offered to the public through Pinellas Technical College. The program provides open enrollment and open access to the public. Pinellas Technical College (PTC) serves adults and dual enrolled high school students from the age of 16+. In addition, PTC also hosts apprenticeships and community short courses. This facility will also make it possible for Pinellas Technical College to increase the number of workforce training offered to the public including industry machinery maintenance and Hydraulics service.

**E. Describe how this proposal is based on criteria established by the state colleges and state technical centers.**

This proposal is based on criteria established by the Florida Department of Education and the State Curriculum Frameworks for the Heavy Equipment Service Technician (T440100).

**F. Does this proposal support a program(s) that will not exclude unemployed or underemployed individuals?**

Yes

**G. Describe how this proposal will promote economic opportunity by enhancing workforce training. Please include the number of program completers anticipated to be created from the proposed training. Further, please include the economic impact on the community, region, or state and the associated metrics used to measure the success of the proposed training.**

This program will enhance workforce training by leading to the creation of a skilled talent pool that can contribute to the regional and state economy and expanding the capacity of the college to graduate an additional 20 students per year with skills in Heavy Equipment Maintenance, Diagnostics, and Repair.

These new technicians will earn a mean salary of \$23.66 - \$25.12 per hour up on entry and approximately an additional \$4.00 per hour once they gain experience. Completion and placement of graduates will be used as metrics for program success in accordance with the college's accreditation standards. As per COE accreditation standards, success will be measured by tracking the number of graduates who secure employment and their feedback on the effectiveness of our program in helping them achieve their career goals. Ultimately, our program aims to enhance economic mobility and create sustainable career paths for participants while supporting the development of infrastructure with the Tampa Bay community.

### **Additional Information**

**A. Is this an expansion of an existing training program?**

No

**B. Does the proposal align with Florida's Targeted Industries?**

Yes

**If yes, please indicate the specific targeted industries with which the proposal aligns. If no, with which industries does the proposal align?**

Transportation, Distribution & Logistics

Architecture & Construction

Manufacturing

Heavy Equipment Service technicians are needed for all construction projects. The targeted industries (aerospace, advanced manufacturing, business & finance, defense & homeland security, information technology, and life science/medical) will all use heavy equipment to build their new facilities, roads, sewer, cable, etc.

**C. Does the proposal align with an occupation(s) on the Statewide Demand Occupations List and/ or the Regional Demand Occupations List?**

Yes

If yes, please indicate the specific occupation(s) with which the proposal aligns. If no, with which occupation does the proposal align?

This proposal aligns with regional targeted occupations of "Bus and Truck Mechanics and Diesel Engine Specialists", "Industrial Machinery Repair", as well as the "Mobile Heavy Equipment Mechanics, Except Engines".

**D. Indicate how the training will be delivered (e.g., classroom-based, computer-based, other). If in-person, identify the location(s) (e.g., city, campus, etc.) where the training will be available. If computer-based, identify the targeted location(s) (e.g. city, county, statewide, etc.) where the training will be available.**

Training will be delivered in-person at the Pinellas Technical College Clearwater Campus.

**E. Indicate the number of anticipated annual enrolled students and completers in the proposed program.**

Students

40

Completers

20

**F. Indicate the length of program (e.g., quarters, semesters, weeks, etc.), including anticipated beginning and ending dates.**

Heavy Equipment Service Technician (1800/18 months)

Students Begin Date: 1/2026

End Date: N/A

The program will begin once the certificate of occupancy has been issued. The training will be perpetual as this is a permanent addition to the Pinellas Technical College program catalog.

Construction:

Begin Date:

1/2025

End Date:

12/2025

**G. Describe the plan to support the sustainability of the program after grant funds have been exhausted**

Pinellas County annual workforce funding will be used to support the program along with other (Perkins, CAPE, etc.) support. Since this will be a PSAV program, tuition will be paid by students to complete the sustainability model.

H. Identify any certifications, degrees, or other credentials that students may obtain through completion of the program. Please include the Classification of Instructional Programs (CIP) code and the percent of completers in each code, corresponding with Section E.

Program completers will be eligible for a PSAV diploma from the State of Florida. In addition, students will be eligible to earn the Automotive Service Excellence Truck Certifications. Related CIPs are: 47.0302 - Heavy Equipment Technicians (70%) and 47.0613 Medium/Heavy Vehicle Truck Technology/Technician (30%).

**I. Does this project have a local match amount?**

No

Program Budget

Project Funding Sources

City/County

\$0.00

Private Sources

\$0.00

Other (grants, etc.)

\$0.00

If you entered an amount in the Other section above, please provide the source of the funding below.

N/A

Project Costs

Equipment Cost

\$1,002,800.00

Personnel Cost

\$0.00

Facilities Cost

\$2,796,812.00

Tuition Cost

\$0.00

Training Materials Cost

\$162,241.00

Other Cost

\$0.00

If you entered an amount in the Other \$ section above, please provide details on the expenses below.

N/A

**C. Provide a detailed budget narrative, including the timing and steps necessary to obtain the funding, how equipment purchases will be associated with the training program, if applicable, and any other pertinent budget-related information. You may upload relevant documents under the Supporting Documents section prior to submitting your proposal.**

Description attached.

**Budget Totals**

Please verify that the information below is correct.

Total Other Funding \$

\$0.00

Total Project Costs \$

\$3,961,853.00

Total Amount Requested \$

\$3,961,853.00

**A. If the entity is awarded grant funds based on this proposal, what approvals must be obtained before the entity can execute a grant agreement with the Florida Department of Economic Opportunity (e.g. approval of a board, commission or council)?**

The School Board of Pinellas County would need to give a final approval of the proposal.

**B. If approval of a board, commission, council or other group is needed prior to execution of an agreement between the entity and the Florida Department of Economic Opportunity:**

**i. Provide the schedule of upcoming meetings for the body for a period of at least six months.**

The school board of Pinellas County meets the second and fourth Tuesday of each month. Dates:

4/11/23

4/25/23

5/9/23

6/13/23

6/27/23

7/11/23

8/1/23

8/22/23

9/12/23

9/26/23

10/10/23

10/24/23

11/14/23

**ii. State whether entity is willing and able to hold special meetings, and if so, how many days must the special meetings be noticed.**

N/A

***I, the undersigned, do hereby certify that I have express authority to sign this proposal on behalf of the above-described entity and to the best of my knowledge, that all data and information submitted in the proposal is truthful and accurate, and no material fact has been omitted.***

**\*Name of Entity:**

Pinellas County Schools

**\*Name and Title of Authorized Representative:**

Kevin K. Hendrick, Superintendent

Mark Hunt, Executive Director

**\*Representative Signature:**



Kevin Hendrick, Superintendent

**\*Signature Date:** 5/31/2023



Mark Hunt, Executive Director

**\*Signature Date:** 5/25/23



## Appendix B

## Employment & Wages-Pinellas

## 2021 Florida Occupational Employment and Wages

Tampa - St. Petersburg - Clearwater

Occupational Code	Occupational Title	2021 Employment	2021 Hourly Wage (Wage estimates expressed in dollars)				
			Mean	Median	50th*	90th**	Exp***
49-2033	Electrical and Electronics Installers and Repairers, Transportation Equipment	40	25.42	22.95	28.32	18.83	30.94
49-2034	Electrical and Electronics Repairs, Commercial and Industrial Equipment	360	35.62	30.30	37.67	17.67	44.59
49-2035	Electronic Equipment Installers and Repairers, Powerhouses, Substation, and Relay	60	22.92	18.25	24.75	16.92	23.64
49-2036	Electronic Equipment Installers and Repairers, Motor Vehicles	70	21.54	16.87	16.74	16.99	25.64
49-2037	Automotive Equipment Installers and Repairers	210	23.57	22.69	23.18	21.21	26.56
49-2038	Security and Fire Alarm Systems Installers	920	33.18	29.78	33.18	18.09	39.16
49-3011	Aviation Mechanics and Service Technicians	1,340	23.10	22.58	22.58	14.44	26.67
49-3021	Automotive Body and Related Repairers	6,880	22.28	22.27	22.27	18.30	26.21
49-3023	Automotive Service Technicians and Mechanics	1,860	25.66	23.38	23.38	18.30	29.64
49-3041	Bus and Truck Mechanics and Diesel Engine Specialists	960	23.90	23.18	23.18	16.92	22.99
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	610	22.43	22.52	22.52	14.33	26.49
49-3051	Motorboat Mechanics and Service Technicians	140	20.57	18.77	18.77	13.94	23.69
49-3052	Motorcycle Mechanics	310	18.58	18.23	18.23	13.20	21.27
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	290	23.46	22.32	22.32	15.85	27.26
49-3092	Recreational Vehicle Service Technicians	580	14.39	13.68	10.79	10.79	16.18
49-3093	Recreational Vehicle Service Technicians	150	20.36	18.12	14.72	14.72	23.18
49-9011	Mechanical Door Repairers	100	24.39	22.25	17.07	17.07	28.05
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	4,790	23.01	22.69	16.67	16.67	26.18
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	460	18.19	17.96	10.76	10.76	21.90
49-9031	Home Appliance Repairers	1,940	26.48	28.20	28.20	18.23	30.60
49-9041	Industrial Machinery Mechanics	130	23.22	22.82	17.35	17.35	26.16
49-9043	Maintenance Workers, Machinery	1,280	20.99	20.35	20.35	16.39	23.29
49-9044	Mechanical Power-Line Installers and Repairers	1,280	34.99	37.27	37.27	20.67	42.16
49-9051	Telecommunications Line Installers and Repairers	1,640	23.23	22.68	17.54	17.54	26.07
49-9052	Medical Equipment Repairers	60	19.29	17.74	13.84	13.84	22.02
49-9053	Medical Instrument Repairers and Tuners	50	22.94	22.94	23.95	18.20	25.30
49-9059	Precision Instrument and Equipment Repairers, All Other	NR	19.08	17.91	13.30	13.30	21.88
49-9071	Maintenance and Repair Workers, General	13,790	19.88	22.48	22.48	14.50	22.72
49-9072	Maintenance and Repair Workers, General	270	22.81	22.84	22.84	18.31	25.21
49-9091	Cabin, Venting, and Amusement Machine Services and Repairers	70	18.75	18.00	14.73	14.73	20.77
49-9092	Commercial Diver	260	18.75	22.83	17.54	17.54	32.30
49-9094	Locksmiths and Safe Repairers	80	27.38	27.38	17.52	17.52	32.30
49-9095	Riggers	1,080	15.97	14.51	13.89	13.89	17.52
49-9098	Helpers—Installation, Maintenance, and Repair Workers	2,680	18.66	17.69	12.52	12.52	21.55
49-9099	Installation, Maintenance, and Repair Workers, All Other	47,990	18.76	17.71	16.80	16.80	21.88
51-1000	Production Occupations	3,760	29.39	28.90	18.20	18.20	34.78
51-1011	First-Line Supervisors of Production and Operating Workers	NR	19.73	17.97	13.72	13.72	24.64
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	90	21.31	22.04	14.05	14.05	24.64
51-2021	Coil Winders, Tapers, and Finishers	3,010	16.49	14.56	13.02	13.02	18.22
51-2028	Electrical, electronic, and electromechanical assemblers, except coil winders, tapers, and finishers	110	19.64	17.79	14.06	14.06	22.43
51-2031	Engine and Other Machine Assemblers	280	18.46	18.39	14.40	14.40	21.98
51-2041	Structural Metal Fabricators and Fitters	460	17.78	17.92	14.13	14.13	19.61
51-2051	Fiberglass Laminators and Fabricators	6,770	16.47	14.51	12.11	12.11	18.63
51-2090	Miscellaneous Assemblers and Fabricators	1,440	14.38	13.98	11.05	11.05	16.05
51-3011	Bakers	1,070	17.49	18.08	13.29	13.29	19.59
51-3021	Butchers and Meat Cutters	310	14.99	14.92	10.44	10.44	17.27
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	600	16.84	14.43	10.54	10.54	18.99
51-3092	Food Batchmakers	30	13.81	13.99	11.25	11.25	15.09
51-3093	Food Processing Machine Operators and Tenders	140	15.96	17.48	12.50	12.50	17.69
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	30	18.17	18.20	14.60	14.60	22.53
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	50	17.84	18.00	14.88	14.88	19.56
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	30	16.49	18.00	14.88	14.88	19.56
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	450	18.00	18.28	14.88	14.88	19.56
51-4032	Cutting and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	20	16.49	17.42	14.09	13.75	18.26
51-4033	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	190	16.49	17.42	14.56	12.11	19.85
51-4034	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	30	18.51	17.67	14.55	12.11	18.88
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	NR	19.10	17.67	15.65	12.11	20.49

\* Indicates annual wages.  
 \*\* Entry Wage: this is the wage an entry-level worker might expect to make. It is defined as the average (mean) wage earned by the lowest third of all workers in a given occupation.  
 \*\*\* Experienced Wage: this wage represents what an experienced worker might expect to make. It is defined as the average (mean) wage earned by the upper two-thirds of all workers in a given occupation.  
 2021 wages based on second quarter survey.  
 NR=not releasable  
 Florida Department of Economic Opportunity, Bureau of Workforce Statistics and Economic Research

Employment Projections Data - AREA 14 -  
PINELLAS COUNTY

# JOBS BY OCCUPATION

## WORKFORCE DEVELOPMENT AREA 14 - PINELLAS COUNTY

SOC Code	SOC Title	Employment				Percent Growth	Total Job Openings	2021 Median		Education	
		2022	2030	Growth	2022			Hourly Wage (\$ <sup>1</sup> )	FL**	BS**	
47-1011	Supervisors of Construction and Extraction Workers	2,288	2,541	253	11.1	2,050	29.72	A	HS		
47-2000	Construction Trades Workers	18,162	20,265	2,103	11.6	16,726	-	-	HS		
47-2031	Carpenters	3,266	3,536	270	8.3	2,761	19.01	PS	HS		
47-2051	Cement Masons and Concrete Finishers	1,186	1,345	159	13.4	1,070	-	PS	NR		
47-2061	Construction Laborers	5,182	5,819	637	12.3	4,910	17.64	NR	NR		
47-2073	Operating Engineers and Other Construction Equipment Operators	564	616	52	9.2	544	18.58	PS	HS		
47-2111	Electricians	2,092	2,340	248	11.9	2,065	22.94	PS	HS		
47-2141	Painters, Construction and Maintenance	1,530	1,648	118	7.7	1,207	-	PS	NR		
47-2151	Pipelayers	80	95	15	18.8	85	-	PS	NR		
47-2152	Plumbers, Pipefitters, and Steamfitters	1,271	1,413	142	11.2	1,227	23.16	PS	HS		
47-2181	Roofters	877	1,062	185	21.1	919	-	PS	NR		
47-3000	Helpers, Construction Trades	1,069	1,176	107	10.0	1,156	-	NR	HS		
47-3003	Helpers—Electricians	625	672	47	7.5	654	-	NR	HS		
47-3013	Helpers, Construction Trades, All Other	119	139	20	16.8	140	-	NR	NR		
47-3019	Other Construction and Related Workers	947	1,021	74	7.8	951	-	PS	HS		
47-4000	Construction and Building Inspectors	317	324	7	2.2	301	23.70	PS	HS		
47-4011	Highway Maintenance Workers	77	83	6	7.8	71	-	PS	HS		
47-4051	Extraction Workers	75	87	12	16.0	89	-	-	NR		
47-5000	Rotary Drill Operators, Oil and Gas	1	1	0	0.0	1	-	NR	NR		
47-5012	Installation, Maintenance, and Repair Occupations	19,232	20,663	1,431	7.4	16,748	-	-	-		
49-0000	Supervisors of Installation, Maintenance, and Repair Workers	1,317	1,439	122	9.3	1,098	-	-	-		
49-1000	First-Line Supervisors of Mechanics, Installers, and Repairers	1,317	1,439	122	9.3	1,098	29.11	PS	HS		
49-1011	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	1,565	1,720	155	9.9	1,521	-	PS	PS		
49-2000	Telecommunications Equipment Installers & Repairers, Exc. Line Installers	677	749	72	10.6	707	-	PS	PS		
49-2022	Electrical and Electronics Repairers, Commercial and Industrial Equipment	90	97	7	7.8	65	-	PS	HS		
49-2094	Security and Fire Alarm Systems Installers	273	337	64	23.4	309	-	-	-		
49-2098	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	4,896	4,929	33	0.7	3,863	-	PS	PS		
49-3000	Aircraft Mechanics and Service Technicians	130	138	8	6.2	95	-	PS	HS		
49-3011	Automotive Body and Related Repairers	747	749	2	0.3	548	-	PS	HS		
49-3021	Automotive Service Technicians and Mechanics	2,520	2,457	-63	-2.5	1,880	22.14	PS	PS		
49-3023	Bus & Truck Mechanics & Diesel Engine Specialists	616	645	29	4.7	487	23.16	PS	HS		
49-3031	Farm Equipment Mechanics and Service Technicians	1	1	0	0.0	1	-	PS	HS		
49-3041	Mobile Heavy Equipment Mechanics, Except Engines	160	179	19	11.9	151	23.00	PS	HS		
49-3042	Other Installation, Maintenance, and Repair Occupations	11,454	12,575	1,121	9.8	10,266	-	-	-		
49-9000	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,880	2,014	164	8.9	1,615	22.69	PS	PS		
49-9021	Industrial Machinery Mechanics	660	779	119	18.0	607	23.68	PS	HS		
49-9041	Electrical Power-Line Installers and Repairers	269	283	14	5.2	204	-	PS	HS		
49-9051	Medical Equipment Repairers	281	313	32	11.4	278	-	PS	A		
49-9062	Maintenance and Repair Workers, General	5,786	6,345	559	9.7	5,100	17.89	PS	HS		
49-9071	Coin, Vending, and Amusement Machine Servicers and Repairers	20	22	2	10.0	21	-	PS	HS		
49-9091	Locksmiths and Safe Repairers	332	347	15	4.5	285	-	PS	HS		
49-9094	Signal and Track Switch Repairers	1	1	0	0.0	1	-	NR	HS		
49-9097	Helpers—Installation, Maintenance, and Repair Workers	132	143	11	8.3	150	14.48	HS	HS		
49-9098	Installation, Maintenance & Repair Workers, Other	1,247	1,367	120	9.6	1,187	17.69	HS	HS		

Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics & Economic Research

Employment Projections Data - AREA 15 -  
HILLSBOROUGH COUNTY

# JOBS BY OCCUPATION

## WORKFORCE DEVELOPMENT AREA 15 - HILLSBOROUGH COUNTY

SOC Code	SOC TITLE	Employment			Growth	Percent Growth	Total Job Openings	2021 Median Hourly Wage (\$/yr)	Education	
		2022	2030	Growth					FL**	BLS**
47-5098	Underground Mining Machine Operators and Extraction Workers, All Other	2	3	1	50.0	4	-	HS	HS	
49-0000	Installation, Maintenance, and Repair Occupations	31,801	34,515	2,714	8.5	28,214	-	-	-	
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	2,902	3,190	288	9.9	2,444	-	-	-	
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	2,902	3,190	288	9.9	2,444	29.11	PS	HS	
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	4,201	4,540	339	8.1	4,038	-	-	-	
49-2011	Computer, Automated Teller, and Office Machine Repairers	434	417	-17	-3.9	345	-	PS	SC	
49-2022	Telecommunications Equipment Installers & Repairers, Excl. Line Installers	2,572	2,767	195	7.6	2,576	-	PS	PS	
49-2092	Electric Motor, Power Tool, and Related Repairers	232	241	9	3.9	189	-	PS	HS	
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	120	126	6	5.0	82	-	PS	PS	
49-2098	Security and Fire Alarm Systems Installers	586	714	128	21.8	660	-	PS	HS	
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	8,558	9,033	475	5.6	7,242	-	PS	PS	
49-3011	Aircraft Mechanics and Service Technicians	660	686	26	3.9	461	-	PS	PS	
49-3021	Automotive Body and Related Repairers	516	529	13	2.5	395	-	PS	PS	
49-3023	Automotive Service Technicians and Mechanics	3,738	3,782	44	1.2	2,979	22.42	PS	PS	
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	1,583	1,722	139	8.8	1,339	24.68	PS	HS	
49-3041	Farm Equipment Mechanics and Service Technicians	82	89	7	8.5	73	-	PS	HS	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,110	1,261	151	13.6	1,075	23.00	PS	HS	
49-3043	Rail Car Repairers	6	5	-1	-16.7	3	-	PS	HS	
49-3052	Motorcycle Mechanics	2	2	0	0.0	2	-	PS	PS	
49-3091	Bicycle Repairers	2	2	0	0.0	1	-	NR	HS	
49-9000	Other Installation, Maintenance, and Repair Occupations	16,140	17,752	1,612	10.0	14,490	-	HS	HS	
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	137	160	23	16.8	117	-	HS	HS	
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,683	2,938	255	9.5	2,365	22.75	PS	PS	
49-9041	Industrial Machinery Mechanics	1,297	1,436	139	10.7	1,066	28.90	PS	HS	
49-9051	Electrical Power-Line Installers and Repairers	450	498	48	10.7	374	-	PS	HS	
49-9052	Telecommunications Line Installers and Repairers	807	874	67	8.3	785	-	PS	HS	
49-9062	Medical Equipment Repairers	737	760	23	3.1	644	-	PS	A	
49-9071	Maintenance and Repair Workers, General	8,212	9,082	870	10.6	7,344	17.99	PS	HS	
49-9097	Signal and Track Switch Repairers	6	5	-1	-16.7	4	-	HS	HS	
49-9098	Helpers—Installation, Maintenance, and Repair Workers	415	470	55	13.3	504	14.48	HS	HS	
49-9099	Installation, Maintenance & Repair Workers, Other	648	724	76	11.7	635	17.74	HS	HS	
51-0000	Production Occupations	22,902	23,729	827	3.6	21,313	-	-	-	
51-1000	Supervisors of Production Workers	1,859	2,009	150	8.1	1,656	-	PS	HS	
51-1011	First-Line Supervisors of Production and Operating Workers	1,859	2,009	150	8.1	1,656	28.83	PS	HS	
51-2000	Assemblers and Fabricators	3,705	3,666	-39	-1.1	3,140	-	HS	HS	
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Workers, Tapers, and Finishers	187	160	-27	-14.4	115	-	PS	HS	
51-2041	Structural Metal Fabricators and Fitters	2,233	2,113	-120	-5.4	1,784	14.34	PS	HS	
51-2090	Miscellaneous Assemblers and Fabricators	2,279	2,348	69	3.0	2,296	-	PS	HS	
51-3000	Food Processing Workers	581	598	17	2.9	633	-	PS	NR	
51-3011	Bakers	1,080	1,127	47	4.4	1,061	-	HS	NR	
51-3021	Butchers and Meat Cutters	200	217	17	8.5	209	-	NR	NR	
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	238	213	-25	-10.5	194	-	NR	HS	
51-3092	Food Batchmakers	3,582	3,670	88	2.5	3,058	-	NR	HS	
51-4000	Metal Workers and Plastic Workers									

Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics & Economic Research

# WORKFORCE DEVELOPMENT - FL Statewide



# JOBS BY OCCUPATION

FLORIDA

SOC Code	SOC Title	Employment				Percent Growth	Total Job Openings	2021 Median Hourly Wage (\$)*	Education	
		2022	2030	Growth	2022				FL**	BLS**
47-3014	Helpers—Painters, Paperhangers, Plasterers, and Stucco Masons	833	941	108	13.0	938	14.09	NR	NR	
47-3015	Helpers—Pipefitters, Plumbers, Pipefitters, and Steamfitters	6,877	7,580	703	10.2	7,464	14.38	NR	HS	
47-3016	Helpers—Roofers	1,313	1,625	312	23.8	1,686	17.22	NR	NR	
47-3019	Helpers, Construction Trades, All Other	2,739	3,137	398	14.5	3,146	14.89	NR	NR	
47-4000	Other Construction and Related Workers	24,486	26,437	1,951	8.0	24,354	-	-	-	
47-4011	Construction and Building Inspectors	11,272	12,224	952	8.4	11,739	29.17	PS	HS	
47-4021	Elevator Installers and Repairers	1,979	2,204	225	11.4	1,763	38.40	PS	HS	
47-4031	Fence Erectors	2,166	2,298	132	6.1	1,907	17.81	NR	NR	
47-4051	Highway Maintenance Workers	1,943	2,087	144	7.4	1,787	17.76	PS	HS	
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	1,464	1,598	134	9.2	1,535	17.83	HS	HS	
47-4090	Miscellaneous Construction and Related Workers	3,533	3,812	279	7.9	3,641	18.03	HS	HS	
47-5000	Extraction Workers	5,178	5,639	461	8.9	5,521	-	-	-	
47-5012	Rotary Drill Operators, Oil and Gas	230	249	19	8.3	244	22.45	NR	NR	
47-5013	Service Unit Operators, Oil, Gas, and Mining	113	123	10	8.8	121	17.80	PS	HS	
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	2,603	2,833	230	8.8	2,771	20.98	HS	HS	
47-5051	Rock Splitters, Quarry	63	67	4	6.3	65	18.03	NR	NR	
47-5081	Helpers—Extraction Workers	246	272	26	10.6	268	14.32	HS	HS	
47-5097	Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and Blasters	1,353	1,487	134	9.9	1,462	-	HS	HS	
47-5098	Underground Mining Machine Operators and Extraction Workers, All Other	286	308	22	7.7	300	-	HS	HS	
49-0000	Installation, Maintenance, and Repair Occupations	412,565	450,866	38,301	9.3	367,597	-	-	-	
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	32,385	35,549	3,164	9.8	27,207	29.23	PS	HS	
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	32,385	35,549	3,164	9.8	27,207	29.23	PS	HS	
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and Repairers	38,390	42,328	3,938	10.3	36,900	-	-	-	
49-2011	Computer, Automated Teller, and Office Machine Repairers	4,959	5,265	306	6.2	4,651	17.53	PS	SC	
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers, Exc. Line Installers	692	786	94	13.6	753	29.17	PS	A	
49-2022	Telecommunications Equipment Installers & Repairers, Exc. Line Installers	17,589	19,578	1,989	11.3	18,560	23.54	PS	PS	
49-2091	Avionics Technicians	2,221	2,432	211	9.5	1,498	29.01	PS	A	
49-2092	Electric Motor, Power Tool, and Related Repairers	1,199	1,335	136	11.3	1,101	21.87	PS	HS	
49-2093	Electrical and Electronics Installers & Repairers, Transport, Equipment	354	390	36	10.2	266	28.94	PS	PS	
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	2,661	2,890	229	8.6	1,942	27.23	PS	PS	
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	801	833	32	4.0	536	23.21	PS	PS	
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	593	563	-30	-5.1	327	18.29	PS	HS	
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	1,973	2,051	78	4.0	1,767	22.65	PS	HS	
49-2098	Security and Fire Alarm Systems Installers	1,973	2,051	78	4.0	1,767	22.69	PS	HS	
49-3000	Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	5,348	6,205	857	16.0	5,499	-	-	-	
49-3011	Aircraft Mechanics and Service Technicians	116,276	123,303	7,027	6.0	98,795	29.58	PS	PS	
49-3021	Automotive Body and Related Repairers	14,558	16,043	1,485	10.2	11,394	22.42	PS	HS	
49-3022	Automotive Glass Installers and Repairers	10,217	10,869	652	6.4	8,345	18.21	NR	HS	
49-3023	Automotive Service Technicians and Mechanics	1,092	1,174	82	7.5	1,023	20.17	PS	PS	
49-3031	Bus & Truck Mechanics & Diesel Engine Specialists	51,746	53,129	1,383	2.7	42,314	20.17	PS	PS	
49-3041	Farm Equipment Mechanics and Service Technicians	14,781	16,266	1,485	10.0	12,750	23.24	PS	HS	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	1,382	1,478	96	6.9	1,210	18.65	PS	HS	
49-3043	Rail Car Repairers	8,304	9,037	733	8.8	7,489	23.21	PS	HS	
49-3051	Motorboat Mechanics and Service Technicians	471	481	10	2.1	381	28.73	PS	HS	
		4,038	4,401	363	9.0	4,061	22.77	PS	HS	

Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics & Economic Research

# JOBS BY OCCUPATION

## FLORIDA

SOC Code	SOC Title	Employment			Percent Growth	Total Job Openings	Hourly Wage (\$/hr)	FL**	BLS**
		2022	2030	Growth					
49-3052	Motorcycle Mechanics	897	950	53	5.9	862	18.05	PS	PS
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	2,354	2,555	201	8.5	2,352	17.97	A	HS
49-3091	Bicycle Repairers	434	464	30	6.9	439	17.26	NR	HS
49-3092	Recreational Vehicle Service Technicians	1,178	1,260	82	7.0	1,192	20.09	PS	HS
49-3093	Tire Repairers and Changers	4,824	5,196	372	7.7	4,933	13.68	NR	HS
49-9000	Other Installation, Maintenance, and Repair Occupations	225,514	249,686	24,172	10.7	204,755	-	-	-
49-9011	Mechanical Door Repairers	1,946	2,181	235	12.1	1,547	18.71	HS	HS
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,819	1,976	157	8.6	1,364	23.21	HS	HS
49-9021	Home Appliance Repairers	38,358	41,917	3,559	9.3	33,701	22.56	PS	PS
49-9031	Home Appliance Repairers	2,142	2,314	172	8.0	1,875	19.00	PS	HS
49-9041	Industrial Machinery Mechanics	16,091	18,865	2,774	17.2	14,625	23.63	PS	HS
49-9043	Maintenance Workers, Machinery	1,795	2,005	210	11.7	1,544	18.67	PS	HS
49-9044	Millwrights	839	931	92	11.0	698	22.28	PS	HS
49-9051	Electrical Power-Line Installers and Repairers	6,808	7,224	416	6.1	5,246	30.22	PS	HS
49-9052	Telecommunications Line Installers and Repairers	6,489	7,168	679	10.5	6,508	22.50	PS	HS
49-9061	Camera and Photographic Equipment Repairers	242	260	18	7.4	226	11.42	PS	HS
49-9062	Medical Equipment Repairers	4,562	5,106	544	11.9	4,551	22.66	PS	A
49-9063	Musical Instrument Repairers and Tuners	362	346	-16	-4.4	277	17.22	HS	HS
49-9064	Watch Repairers	371	307	-64	-17.3	217	14.08	PS	HS
49-9069	Precision Instrument and Equipment Repairers, All Other	206	236	30	14.6	214	24.61	PS	HS
49-9071	Maintenance and Repair Workers, General	113,117	126,159	13,042	11.5	102,607	17.93	PS	HS
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	1,034	1,087	53	5.1	1,040	22.35	HS	HS
49-9092	Commercial Divers	462	537	75	16.2	483	22.68	A	PS
49-9094	Locksmiths and Safe Repairers	2,583	2,569	-14	-0.5	2,033	18.00	PS	HS
49-9095	Manufactured Building and Mobile Home Installers	472	416	-56	-11.9	1,026	14.35	PS	HS
49-9096	Riggers	1,216	1,214	-2	-0.2	1,026	22.65	HS	HS
49-9097	Signal and Track Switch Repairers	247	242	-5	-2.0	195	29.38	HS	HS
49-9098	Helpers—Installation, Maintenance, and Repair Workers	6,969	7,688	719	10.3	8,156	14.84	NR	HS
49-9099	Installation, Maintenance & Repair Workers, Other	17,441	18,885	1,444	8.3	16,269	17.69	HS	HS
51-1000	Production Occupations	326,131	341,759	15,628	4.8	310,216	-	-	-
51-1011	Supervisors of Production Workers	25,514	27,736	2,222	8.7	22,953	28.82	PS	HS
51-2000	First-Line Supervisors of Production and Operating Workers	25,514	27,736	2,222	8.7	22,953	28.82	PS	HS
51-2011	Assemblers and Fabricators	68,247	66,998	-1,249	-1.8	57,259	-	-	-
51-2021	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	1,298	1,301	3	0.2	1,142	18.29	PS	HS
51-2028	Coil Winders, Tapers, and Finishers	139	131	-8	-5.8	104	18.54	NR	HS
51-2041	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Workers, Tapers, and Finishers	12,642	13,835	1,193	9.4	12,230	14.56	HS	HS
51-2041	Structural Metal Fabricators and Fitters	2,999	2,897	-102	-3.4	2,307	18.45	PS	HS
51-2090	Fiberglass Laminators and Fabricators	3,172	3,375	203	6.4	3,071	17.77	PS	HS
51-3000	Miscellaneous Assemblers and Fabricators	47,439	44,894	-2,545	-5.4	37,908	14.43	PS	HS
51-3011	Food Processing Workers	30,349	33,264	2,915	9.6	33,900	-	-	-
51-3021	Bakers	11,346	12,925	1,579	13.9	14,247	14.00	PS	NR
51-3022	Butchers and Meat Cutters	8,726	9,432	706	8.1	9,051	17.91	HS	NR
51-3023	Meat, Poultry, and Fish Cutters and Trimmers	3,757	3,983	226	6.0	3,783	16.33	NR	NR
51-3023	Slaughtering and Meat Packers	264	254	-10	-3.8	228	13.84	PS	NR

Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics & Economic Research

Economic Development and Employer Planning  
System: Heavy Equipment - Workforce Supply  
(Completers) Statewide

# EDEPS ECONOMIC DEVELOPMENT and EMPLOYER PLANNING SYSTEM

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## PROGRAMS COMPLETERS

Florida

Heavy Equipment Maintenance Technology/Technician



		Program Completers														
		2016-17			2017-18			2018-19			2019-20			2020-21		
Institution		M	W	Total	M	W	Total	M	W	Total	M	W	Total	M	W	Total
<b>Award at least 2 but less than 4 academic years</b>																
1	Immokalee Technical College	5	1	6	14	1	15	9	0	9	9	0	9	11	0	11
2	Orange Technical College-Mid Florida Campus	17	0	17	15	0	15	11	0	11	12	0	12	10	0	10
3	Palm Beach State College	10	1	11	4	0	4	5	0	5	4	0	4	4	0	4
<b>Subtotal</b>		<b>32</b>	<b>2</b>	<b>34</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>
<b>Program Completer Total</b>		<b>32</b>	<b>2</b>	<b>34</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>

Institution	Metropolitan/Micropolitan Statistical Area
Immokalee Technical College	Naples-Marco Island, FL
Orange Technical College-Mid Florida Campus	Orlando-Kissimmee-Sanford, FL
Palm Beach State College	Miami-Fort Lauderdale-Pompano Beach, FL

Source: National Center for Educational Statistics, Degrees Conferred 2017-21.  
 An individual with a double-major (receiving two degrees) is counted as a completer for their primary degree program.

Economic Development and Employer Planning  
System: Demand Indicators - Heavy Equipment  
Service Technician

# EDEPS ECONOMIC DEVELOPMENT and EMPLOYER PLANNING SYSTEM

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Supply Indicators

## OCCUPATIONAL SUPPLY DEMAND Unit of Analysis: 4720B Heavy Equipment Repair

Florida ▼ Tampa-St. Petersburg-Clearwater, FL ▼

### Occupational Characteristics Florida/United States

SOC Code	Occupation	Florida		Typical Education	Work Experience	Typical Training	Pct Self Empl
		Growth Rate 2020-30	Median Annual Wage				
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	As fast as the average	\$48,280	High school diploma or equivalent	None	Long-term on-the-job training	3.5%
49-3043	Rail Car Repairers	Little or no change	\$59,760	High school diploma or equivalent	None	Long-term on-the-job training	3.8%

• Long-term OJT (on-the-job training): more than 1 year • Moderate-term OJT: 1-12 months • Short-term OJT: 1 month or less

### Occupational Projections Florida

SOC Code	Occupation	Employment		Change 2020-30		Average Annual Openings
		Base 2020	Proj 2030	Number	Percent	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	7,910	9,070	1,160	14.7%	940
49-3043	Rail Car Repairers	480	490	10	2.1%	50



### Wage Trends (Median) Florida

SOC Code	Occupation	Median Annual Wage					Change 2017 to 2021
		2017	2018	2019	2020	2021	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$44,180	\$46,870	\$47,240	\$48,890	\$48,280	9.3%
49-3043	Rail Car Repairers	\$58,570	\$59,060	\$55,850	\$57,770	\$59,760	2.0%
Benchmarks for Wage Trends (all occupations)		2017	2018	2019	2020	2021	Change 2017 to 2021
Florida Median Wage		\$33,420	\$34,560	\$35,850	\$37,580	\$37,920	13.5%
Florida Mean Wage		\$44,790	\$46,010	\$47,750	\$50,020	\$51,950	16.0%
Florida Mean Wage RSE		0.4%	0.4%	0.4%	0.4%	0.2%	
National Median Wage		\$37,690	\$38,640	\$39,810	\$41,950	\$45,760	21.4%
National Mean Wage		\$50,620	\$51,960	\$53,490	\$56,310	\$58,260	15.1%
National Mean Wage RSE		0.1%	0.1%	0.1%	0.1%	0.1%	
National Consumer Price Index C-CPI-U		139.0	141.8	143.9	145.5	152.1	9.4%

### Wage Trends (Mean) Florida

SOC Code	Occupation	Mean Annual Wage					Change 2017 to 2021	Relative Standard Error of the Mean Annual Wage				
		2017	2018	2019	2020	2021		2017	2018	2019	2020	2021
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$45,580	\$48,250	\$48,310	\$49,990	\$50,150	10.0%	1.3%	1.2%	0.9%	0.9%	1.7%
49-3043	Rail Car Repairers	\$57,650	\$57,780	\$54,120	\$56,100	\$56,350	-2.3%	3.7%	4.7%	4.2%	5.0%	1.0%

### Wage Trends (Mean) Tampa-St. Petersburg-Clearwater, FL

SOC Code	Occupation	Mean Annual Wage					Change 2017 to 2021	Relative Standard Error of the Mean Annual Wage				
		2017	2018	2019	2020	2021		2017	2018	2019	2020	2021
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$47,330	\$50,830	\$49,220	\$50,690	\$50,690	7.1%	3.6%	3.1%	2.4%	2.4%	2.4%

### Related National Information (external links)

Occupation	OOH
Mobile Heavy Equipment Mechanics, Except Engines	<a href="#">How to Become One</a> <a href="#">Job Outlook</a>
Rail Car Repairers	<a href="#">How to Become One</a> <a href="#">Job Outlook</a>

OOH (Occupational Outlook Handbook)

● Bright Outlook occupation (O\*NET data definition) ✎

Source: U.S. Department of Labor, Bureau of Labor Statistics; Occupational Characteristics.

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# EDEPS ECONOMIC DEVELOPMENT and EMPLOYER PLANNING SYSTEM

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Supply Indicators

## OCCUPATIONAL SUPPLY DEMAND Unit of Analysis: 4720B Heavy Equipment Repair

Florida Tampa-St. Petersburg-Clearwater, FL

### Occupational Characteristics Florida/United States

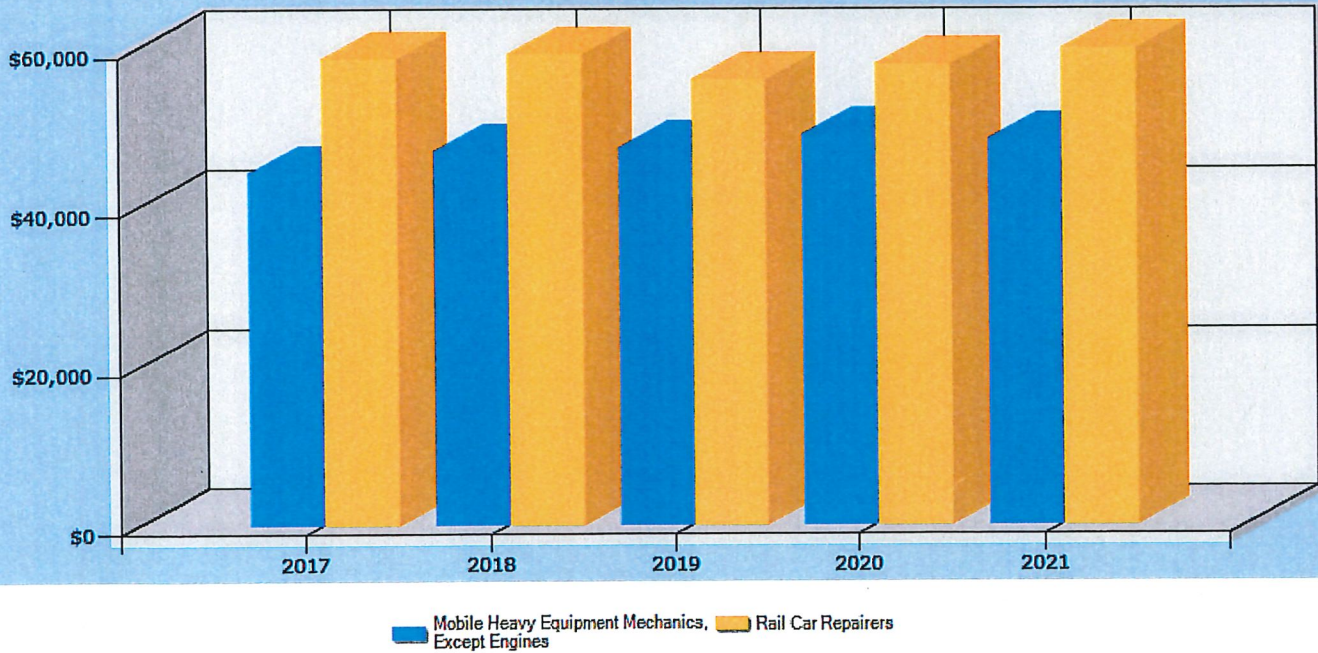
SOC Code	Occupation	Florida		United States			Pct Self Empl
		Growth Rate 2020-30	Median Annual Wage	Typical Education	Work Experience	Typical Training	
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	As fast as the average	\$48,280	High school diploma or equivalent	None	Long-term on-the-job training	3.5%
49-3043	Rail Car Repairers	Little or no change	\$59,760	High school diploma or equivalent	None	Long-term on-the-job training	3.8%

• Long-term OJT (on-the-job training): more than 1 year • Moderate-term OJT: 1-12 months • Short-term OJT: 1 month or less

Occupational Projections Florida		Employment		Change 2020-30		Average
SOC Code	Occupation	Base 2020	Proj 2030	Number	Percent	Annual Openings
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	7,910	9,070	1,160	14.7%	940
49-3043	Rail Car Repairers	480	490	10	2.1%	50



Wage Trends (Median) Florida



Wage Trends (Median) Florida		Median Annual Wage					Change
SOC Code	Occupation	2017	2018	2019	2020	2021	2017 to 2021
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$44,180	\$46,870	\$47,240	\$48,890	\$48,280	9.3%
49-3043	Rail Car Repairers	\$58,570	\$59,060	\$55,850	\$57,770	\$59,760	2.0%
Benchmarks for Wage Trends (all occupations)		2017	2018	2019	2020	2021	Change 2017 to 2021
Florida Median Wage		\$33,420	\$34,560	\$35,850	\$37,580	\$37,920	13.5%
Florida Mean Wage		\$44,790	\$46,010	\$47,750	\$50,020	\$51,950	16.0%
Florida Mean Wage RSE		0.4%	0.4%	0.4%	0.4%	0.2%	
National Median Wage		\$37,690	\$38,640	\$39,810	\$41,950	\$45,760	21.4%
National Mean Wage		\$50,620	\$51,960	\$53,490	\$56,310	\$58,260	15.1%



National Mean Wage RSE	0.1%	0.1%	0.1%	0.1%	0.1%	
National Consumer Price Index C-CPI-U	139.0	141.8	143.9	145.5	152.1	9.4%

Wage Trends (Mean) Florida		Mean Annual Wage					Change	Relative Standard Error of the Mean Annual Wage				
SOC Code	Occupation	2017	2018	2019	2020	2021	2017 to 2021	2017	2018	2019	2020	2021
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$45,580	\$48,250	\$48,310	\$49,990	\$50,150	10.0%	1.3%	1.2%	0.9%	0.9%	1.7%
49-3043	Rail Car Repairers	\$57,650	\$57,780	\$54,120	\$56,100	\$56,350	-2.3%	3.7%	4.7%	4.2%	5.0%	1.0%

Wage Trends (Mean) Tampa-St. Petersburg-Clearwater, FL		Mean Annual Wage					Change	Relative Standard Error of the Mean Annual Wage				
SOC Code	Occupation	2017	2018	2019	2020	2021	2017 to 2021	2017	2018	2019	2020	2021
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$47,330	\$50,830	\$49,220	\$50,690	\$50,690	7.1%	3.6%	3.1%	2.4%	2.4%	2.4%

Related National Information (external links)		
Occupation	OOH	
Mobile Heavy Equipment Mechanics, Except Engines	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Rail Car Repairers	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>

OOH (Occupational Outlook Handbook)

● Bright Outlook occupation (O\*NET data definition) ✕

Source: U.S. Department of Labor, Bureau of Labor Statistics; Occupational Characteristics.

OCCUPATIONAL SUPPLY DEMAND  
Unit of Analysis: 4720B Heavy Equipment Repair



47.0302 Heavy Equipment Maintenance Technology/Technician (Florida)																	
Market Share			Program Completers														
			2016-17			2017-18			2018-19			2019-20			2020-21		
Institution			M	W	Total	M	W	Total	M	W	Total	M	W	Total	M	W	Total
<b>Award at least 2 but less than 4 academic years</b>																	
1	Immokalee Technical College		5	1	6	14	1	15	9	0	9	9	0	9	11	0	11
2	Orange Technical College-Mid Florida Campus		17	0	17	15	0	15	11	0	11	12	0	12	10	0	10
3	Palm Beach State College		10	1	11	4	0	4	5	0	5	4	0	4	4	0	4
<b>Subtotal</b>			<b>32</b>	<b>2</b>	<b>34</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>
<b>Program Completer Total</b>			<b>32</b>	<b>2</b>	<b>34</b>	<b>33</b>	<b>1</b>	<b>34</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>

Institution	Metropolitan/Micropolitan Statistical Area
Immokalee Technical College	Naples-Marco Island, FL
Orange Technical College-Mid Florida Campus	Orlando-Kissimmee-Sanford, FL
Palm Beach State College	Miami-Fort Lauderdale-Pompano Beach, FL

Source: National Center for Educational Statistics, Degrees Conferred 2017-21 (provisional data)  
An individual with a double-major (receiving two degrees) is counted as a completer for their primary degree program.

Economic Development and Employer Planning  
System: Demand Indicators - Industrial  
Machinery Repair

# EDEPS ECONOMIC DEVELOPMENT and EMPLOYER PLANNING SYSTEM

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Supply Indicators

## OCCUPATIONAL SUPPLY DEMAND Unit of Analysis: 4721B Industrial Machinery Repair

Florida

Tampa-St. Petersburg-Clearwater, FL

Licensing

### Occupational Characteristics Florida/United States

SOC Code	Occupation	Florida		United States			
		Growth Rate 2020-30	Median Annual Wage	Typical Education	Work Experience	Typical Training	Pct Self Empl
47-4021	Elevator and Escalator Installers and Repairers	As fast as the average	\$79,860	High school diploma or equivalent	None	Apprenticeship	N/A
49-9041	Industrial Machinery Mechanics	Faster than the average	\$49,150	High school diploma or equivalent	None	Long-term on-the-job training	0.7%
49-9043	Maintenance Workers, Machinery	As fast as the average	\$38,840	High school diploma or equivalent	None	Long-term on-the-job training	N/A
49-9044	Millwrights	As fast as the average	\$46,340	High school diploma or equivalent	None	Apprenticeship	N/A

• Long-term OJT (on-the-job training): more than 1 year • Moderate-term OJT: 1-12 months • Short-term OJT: 1 month or less

### Occupational Projections Florida

SOC Code	Occupation	Employment		Change 2020-30		Average
		Base 2020	Proj 2030	Number	Percent	Annual Openings
47-4021	Elevator and Escalator Installers and Repairers	1,910	2,220	310	16.2%	220
49-9041	Industrial Machinery Mechanics	15,230	19,250	4,020	26.4%	1,860
49-9043	Maintenance Workers, Machinery	1,650	2,020	370	22.4%	200
49-9044	Millwrights	770	940	170	22.1%	90



### Wage Trends (Median) Florida

SOC Code	Occupation	Median Annual Wage					Change
		2017	2018	2019	2020	2021	2017 to 2021
47-4021	Elevator and Escalator Installers and Repairers	\$59,970	\$60,430	\$72,620	\$85,810	\$79,860	33.2%
49-9041	Industrial Machinery Mechanics	\$47,360	\$46,910	\$47,240	\$49,610	\$49,150	3.8%
49-9043	Maintenance Workers, Machinery	\$42,440	\$41,670	\$36,240	\$37,080	\$38,840	-8.5%
49-9044	Millwrights	\$42,010	\$45,660	\$48,280	\$48,170	\$46,340	10.3%
49-9081	Wind Turbine Service Technicians	N/A	N/A	N/A	N/A	\$50,170	N/A
Benchmarks for Wage Trends (all occupations)		2017	2018	2019	2020	2021	Change 2017 to 2021
Florida Median Wage		\$33,420	\$34,560	\$35,850	\$37,580	\$37,920	13.5%
Florida Mean Wage		\$44,790	\$46,010	\$47,750	\$50,020	\$51,950	16.0%
Florida Mean Wage RSE		0.4%	0.4%	0.4%	0.4%	0.2%	
National Median Wage		\$37,690	\$38,640	\$39,810	\$41,950	\$45,760	21.4%
National Mean Wage		\$50,620	\$51,960	\$53,490	\$56,310	\$58,260	15.1%
National Mean Wage RSE		0.1%	0.1%	0.1%	0.1%	0.1%	
National Consumer Price Index C-CPI-U		139.0	141.8	143.9	145.5	152.1	9.4%

### Wage Trends (Mean) Florida

SOC Code	Occupation	Mean Annual Wage					Change	Relative Standard Error of the Mean Annual Wage				
		2017	2018	2019	2020	2021	2017 to 2021	2017	2018	2019	2020	2021
47-4021	Elevator and Escalator Installers and Repairers	\$61,190	\$60,230	\$70,150	\$77,660	\$79,260	29.5%	4.5%	3.6%	2.9%	3.0%	3.5%
49-9041	Industrial Machinery Mechanics	\$48,480	\$48,040	\$48,950	\$51,400	\$54,220	11.8%	1.1%	1.1%	1.5%	1.4%	1.2%
49-9043	Maintenance Workers, Machinery	\$43,800	\$41,830	\$38,940	\$39,790	\$44,460	1.5%	2.4%	2.5%	2.7%	2.6%	4.2%
49-9044	Millwrights	\$43,630	\$48,250	\$50,310	\$50,180	\$45,230	3.7%	2.9%	3.2%	3.3%	3.7%	2.2%

### Wage Trends (Mean) Tampa-St. Petersburg-Clearwater, FL

SOC Code	Occupation	Mean Annual Wage					Change	Relative Standard Error of the Mean Annual Wage				
		2017	2018	2019	2020	2021	2017 to 2021	2017	2018	2019	2020	2021

47-4021	Elevator and Escalator Installers and Repairers	\$60,470	\$63,280	\$75,410	\$78,880	\$78,880	30.4%	11.1%	13.1%	4.3%	3.1%	3.1%
49-9041	Industrial Machinery Mechanics	\$47,230	\$47,770	\$52,490	\$58,150	\$58,150	23.1%	2.1%	2.3%	5.5%	5.3%	5.3%
49-9043	Maintenance Workers, Machinery	\$47,420	\$44,300	\$38,810	\$39,530	\$39,530	-16.6%	3.9%	10.1%	8.1%	7.9%	7.9%
49-9044	Millwrights	N/A	\$46,940	\$37,330	\$38,470	\$38,470	N/A	N/A	10.3%	8.0%	7.4%	7.4%

Related National Information (external links)		
Occupation	OOH	
Elevator and Escalator Installers and Repairers	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Industrial Machinery Mechanics ⚡	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Maintenance Workers, Machinery ⚡	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Millwrights	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Refractory Materials Repairers, Except Brickmasons	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Roustabouts, Oil and Gas ⚡	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>
Wind Turbine Service Technicians ⚡	<a href="#">How to Become One</a>	<a href="#">Job Outlook</a>

OOH (Occupational Outlook Handbook)

⚡ Bright Outlook occupation (O\*NET data definition) ⚡

Note: N/A indicates data not available.

Source: U.S. Department of Labor, Bureau of Labor Statistics; Occupational Characteristics.

Economic Development and Employer Planning  
System: High Skill, High Wage, and High  
Demand Occupations (Florida)

# EDEPS ECONOMIC DEVELOPMENT and EMPLOYER PLANNING SYSTEM

Home > High Skill, High Wage, and High Demand Occupations (Florida)

## HIGH SKILL, HIGH WAGE, AND HIGH DEMAND OCCUPATIONS (FLORIDA)

Selection Criteria ▾

Florida High Skill, High Wage, and High Demand Occupations				
SOC Code	SOC Title	High Skill / High Wage	High Demand	Unit of Analysis
11-1011	Chief Executives	✓	✓	<a href="#">Business Management and Administration</a>
11-1021	General and Operations Managers	✓	✓	<a href="#">Business Management and Administration</a>
11-2011	Advertising and Promotions Managers	✓	✓	<a href="#">Advertising/Public Relations</a>
11-2021	Marketing Managers	✓	✓	<a href="#">Marketing Management and Research</a>
11-2022	Sales Managers	✓	✓	<a href="#">Business Management and Administration</a>
11-3011	Administrative Services Managers	✓	✓	<a href="#">Business Management and Administration</a>
11-3021	Computer and Information Systems Managers	✓	✓	<a href="#">Computer Systems</a>
11-3031	Financial Managers	✓	✓	<a href="#">Finance and Financial Management Services</a>
11-3121	Human Resources Managers	✓	✓	<a href="#">Human Resources Management</a>
11-9021	Construction Managers	✓	✓	<a href="#">Construction Management</a>
11-9032	Education Administrators, Elementary and Secondary School	✓	✓	<a href="#">Educational Administration</a>
11-9033	Education Administrators, Postsecondary	✓	✓	<a href="#">Educational Administration</a>
11-9041	Architectural and Engineering Managers	✓	✓	<a href="#">Miscellaneous Management and Management Support Occupations</a>
11-9051	Food Service Managers	✓	✓	<a href="#">Food Service and Lodging Management</a>
11-9111	Medical and Health Services Managers	✓	✓	<a href="#">Medical Services Management</a>
11-9121	Natural Sciences Managers	✓	✓	<a href="#">Miscellaneous Management and Management Support Occupations</a>
11-9141	Property, Real Estate, and Community Association Managers	✓	✓	<a href="#">Real Estate</a>
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	✓	✓	<a href="#">Sales</a>
13-1031	Claims Adjusters, Examiners, and Investigators	✓	✓	<a href="#">Insurance</a>
13-1041	Compliance Officers	✓	✓	<a href="#">Miscellaneous Management and Management Support Occupations</a>
13-1051	Cost Estimators	✓	✓	<a href="#">Miscellaneous Professional Occupations</a>
13-1071	Human Resources Specialists	✓	✓	<a href="#">Human Resources Management</a>
13-1081	Logisticians	✓	✓	<a href="#">Transportation, Storage and Distribution Management</a>
13-1111	Management Analysts	✓	✓	<a href="#">Business Management and Administration</a>
13-1121	Meeting, Convention, and Event Planners	✓	✓	<a href="#">Meeting and Event Planning</a>
13-1199	Business Operations Specialists, All Other	✓	✓	<a href="#">Business Management and Administration</a>
13-2011	Accountants and Auditors	✓	✓	<a href="#">Accounting</a>
13-2031	Budget Analysts	✓	✓	<a href="#">Finance and Financial Management Services</a>
13-2051	Financial Analysts	✓	✓	<a href="#">Finance and Financial Management Services</a>
13-2052	Personal Financial Advisors	✓	✓	<a href="#">Financial Planning</a>
13-2071	Credit Counselors	✓	✓	<a href="#">Finance and Financial Management Services</a>
13-2072	Loan Officers	✓	✓	<a href="#">Finance and Financial Management Services</a>
15-1121	Computer Systems Analysts	✓	✓	<a href="#">Computer Systems</a>
15-1122	Information Security Analysts	✓	✓	<a href="#">Computer Systems</a>
15-1131	Computer Programmers	✓	✓	<a href="#">Computer Systems</a>
15-1132	Software Developers, Applications	✓	✓	<a href="#">Computer Engineering</a>
15-1133	Software Developers, Systems Software	✓	✓	<a href="#">Computer Engineering</a>
15-1134	Web Developers	✓	✓	<a href="#">Digital Graphics</a>
15-1141	Database Administrators	✓	✓	<a href="#">Computer Systems</a>
15-1142	Network and Computer Systems Administrators	✓	✓	<a href="#">Computer Systems</a>
15-1143	Computer Network Architects	✓	✓	<a href="#">Computer Systems</a>
15-1151	Computer User Support Specialists	✓	✓	<a href="#">Computer Systems</a>

15-1152	Computer Network Support Specialists	✓	✓	<a href="#">Computer Systems</a>
17-1011	Architects, Except Landscape and Naval	✓	✓	<a href="#">Architecture</a>
17-2031	Biomedical Engineers	✓	✓	<a href="#">Bioengineering and Biomedical Engineering</a>
17-2051	Civil Engineers	✓	✓	<a href="#">Civil Engineering</a>
17-2071	Electrical Engineers	✓	✓	<a href="#">Electrical/Electronic Engineering</a>
17-2081	Environmental Engineers	✓	✓	<a href="#">Environmental/Environmental Health Engineering</a>
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	✓	✓	<a href="#">Environmental/Environmental Health Engineering</a>
17-2112	Industrial Engineers	✓	✓	<a href="#">Industrial Engineering</a>
17-2141	Mechanical Engineers	✓	✓	<a href="#">Mechanical Engineering</a>
17-3031	Surveying and Mapping Technicians	✓	✓	<a href="#">Surveying/Cartography</a>
19-2041	Environmental Scientists and Specialists, Including Health	✓	✓	<a href="#">Environmental Science</a>
19-3031	Clinical, Counseling, and School Psychologists	✓	✓	<a href="#">Psychology</a>
19-3051	Urban and Regional Planners	✓	✓	<a href="#">Urban/Regional Planning</a>
23-1011	Lawyers	✓	✓	<a href="#">Legal Services</a>
23-2011	Paralegals and Legal Assistants	✓	✓	<a href="#">Legal Assisting</a>
25-1011	Business Teachers, Postsecondary	✓	✓	<a href="#">Business Management and Administration</a>
25-1021	Computer Science Teachers, Postsecondary	✓	✓	<a href="#">Computer Systems</a>
25-1022	Mathematical Science Teachers, Postsecondary	✓	✓	<a href="#">Mathematics</a>
25-1032	Engineering Teachers, Postsecondary	✓	✓	<a href="#">All Other Engineering</a>
25-1042	Biological Science Teachers, Postsecondary	✓	✓	<a href="#">Biological/Life Science</a>
25-1066	Psychology Teachers, Postsecondary	✓	✓	<a href="#">Psychology</a>
25-1071	Health Specialties Teachers, Postsecondary	✓	✓	<a href="#">Miscellaneous Professional Occupations</a>
25-1072	Nursing Instructors and Teachers, Postsecondary	✓	✓	<a href="#">Nursing</a>
25-1081	Education Teachers, Postsecondary	✓	✓	<a href="#">Miscellaneous Professional Occupations</a>
25-1121	Art, Drama, and Music Teachers, Postsecondary	✓	✓	<a href="#">Miscellaneous Arts Programs</a>
25-1122	Communications Teachers, Postsecondary	✓	✓	<a href="#">Communications, Journalism and Broadcasting</a>
25-1123	English Language and Literature Teachers, Postsecondary	✓	✓	<a href="#">Liberal Arts and Humanities</a>
25-1194	Vocational Education Teachers, Postsecondary	✓	✓	<a href="#">Adult and Continuing Education</a>
25-2012	Kindergarten Teachers, Except Special Education	✓	✓	<a href="#">Preschool Education</a>
25-2021	Elementary School Teachers, Except Special Education	✓	✓	<a href="#">Elementary Education</a>
25-2022	Middle School Teachers, Except Special and Career/Technical Education	✓	✓	<a href="#">Secondary and Vocational Education</a>
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	✓	✓	<a href="#">Secondary and Vocational Education</a>
25-2032	Career/Technical Education Teachers, Secondary School	✓	✓	<a href="#">Secondary and Vocational Education</a>
25-2051	Special Education Teachers, Preschool	✓	✓	<a href="#">Special Education</a>
25-2052	Special Education Teachers, Kindergarten and Elementary School	✓	✓	<a href="#">Special Education</a>
25-2053	Special Education Teachers, Middle School	✓	✓	<a href="#">Special Education</a>
25-2054	Special Education Teachers, Secondary School	✓	✓	<a href="#">Special Education</a>
27-1024	Graphic Designers	✓	✓	<a href="#">Digital Graphics</a>
27-1025	Interior Designers	✓	✓	<a href="#">Interior Design</a>
27-2012	Producers and Directors	✓	✓	<a href="#">Dramatic Arts (Theater/Film)</a>
27-3031	Public Relations Specialists	✓	✓	<a href="#">Advertising/Public Relations</a>
27-3042	Technical Writers	✓	✓	<a href="#">Communications, Journalism and Broadcasting</a>
27-3091	Interpreters and Translators	✓	✓	<a href="#">Interpreter/Translator</a>
29-1021	Dentists, General	✓	✓	<a href="#">Dentistry</a>
29-1031	Dietitians and Nutritionists	✓	✓	<a href="#">Dietetics/Nutrition</a>
29-1041	Optometrists	✓	✓	<a href="#">Optometry</a>
29-1051	Pharmacists	✓	✓	<a href="#">Pharmacy</a>
29-1061	Anesthesiologists	✓	✓	<a href="#">Medicine</a>
29-1062	Family and General Practitioners	✓	✓	<a href="#">Medicine</a>
29-1063	Internists, General	✓	✓	<a href="#">Medicine</a>



29-1065	Pediatricians, General	✓	✓	<a href="#">Medicine</a>
29-1067	Surgeons	✓	✓	<a href="#">Medicine</a>
29-1071	Physician Assistants	✓	✓	<a href="#">Physician Assisting</a>
29-1122	Occupational Therapists	✓	✓	<a href="#">Occupational Therapy</a>
29-1123	Physical Therapists	✓	✓	<a href="#">Physical Therapy</a>
29-1126	Respiratory Therapists	✓	✓	<a href="#">Respiratory Therapy</a>
29-1127	Speech-Language Pathologists	✓	✓	<a href="#">Speech Pathology/Audiology</a>
29-1131	Veterinarians	✓	✓	<a href="#">Veterinary Medicine</a>
29-1141	Registered Nurses	✓	✓	<a href="#">Nursing</a>
29-1141	Registered Nurses	✓	✓	<a href="#">Nursing</a>
29-1151	Nurse Anesthetists	✓	✓	<a href="#">Nurse Anesthetist</a>
29-1171	Nurse Practitioners	✓	✓	<a href="#">Nursing</a>
29-2021	Dental Hygienists	✓	✓	<a href="#">Dental Hygiene</a>
29-2031	Cardiovascular Technologists and Technicians		✓	<a href="#">Cardiology Technology</a>
29-2032	Diagnostic Medical Sonographers	✓	✓	<a href="#">Diagnostic Medical Sonography</a>
29-2034	Radiologic Technologists	✓	✓	<a href="#">Medical Radiologic Technology</a>
29-2035	Magnetic Resonance Imaging Technologists	✓	✓	<a href="#">Magnetic Resonance Imaging Technology</a>
29-2041	Emergency Medical Technicians and Paramedics		✓	<a href="#">Emergency Medical Technology</a>
29-2055	Surgical Technologists		✓	<a href="#">Surgical Technology</a>
29-2061	Licensed Practical and Licensed Vocational Nurses		✓	<a href="#">LPN</a>
29-2071	Medical Records and Health Information Technicians		✓	<a href="#">Medical Records</a>
29-2081	Opticians, Dispensing		✓	<a href="#">Optical Dispensing</a>
29-2099	Health Technologists and Technicians, All Other		✓	<a href="#">Miscellaneous Health Services</a>
31-2021	Physical Therapist Assistants	✓	✓	<a href="#">Physical Therapy Assisting</a>
31-9011	Massage Therapists		✓	<a href="#">Massage</a>
31-9091	Dental Assistants		✓	<a href="#">Dental Assisting</a>
33-2011	Firefighters	✓	✓	<a href="#">Fire Safety</a>
33-3012	Correctional Officers and Jailers		✓	<a href="#">Law Enforcement</a>
33-3051	Police and Sheriff's Patrol Officers	✓	✓	<a href="#">Law Enforcement</a>
33-9093	Transportation Security Screeners		✓	<a href="#">Security Services</a>
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers		✓	<a href="#">Garden and Landscaping Services</a>
39-1021	First-Line Supervisors of Personal Service Workers		✓	<a href="#">Miscellaneous Recreation and Entertainment Workers</a>
41-1011	First-Line Supervisors of Retail Sales Workers		✓	<a href="#">Sales</a>
41-1012	First-Line Supervisors of Non-Retail Sales Workers	✓	✓	<a href="#">Sales</a>
41-3011	Advertising Sales Agents		✓	<a href="#">Sales</a>
41-3021	Insurance Sales Agents	✓	✓	<a href="#">Insurance</a>
41-3031	Securities, Commodities, and Financial Services Sales Agents	✓	✓	<a href="#">Financial Planning</a>
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	✓	✓	<a href="#">Sales</a>
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	✓	✓	<a href="#">Sales</a>
41-9022	Real Estate Sales Agents		✓	<a href="#">Real Estate</a>
43-1011	First-Line Supervisors of Office and Administrative Support Workers	✓	✓	<a href="#">Clerical Supervision and Management</a>
43-3031	Bookkeeping, Accounting, and Auditing Clerks		✓	<a href="#">Bookkeeping</a>
43-5011	Cargo and Freight Agents		✓	<a href="#">Office Clerical</a>
43-6011	Executive Secretaries and Executive Administrative Assistants		✓	<a href="#">Secretarial</a>
43-6012	Legal Secretaries		✓	<a href="#">Legal Secretarial</a>
43-6013	Medical Secretaries		✓	<a href="#">Medical Office and Clerical</a>
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	✓	✓	<a href="#">Line Supervision</a>
47-2021	Brickmasons and Blockmasons		✓	<a href="#">Masonry and Tile Setting</a>
47-2031	Carpenters		✓	<a href="#">Carpentry</a>

47-2073	Operating Engineers and Other Construction Equipment Operators		✓	<a href="#">Construction and Heavy Equipment Operation</a>
47-2081	Drywall and Ceiling Tile Installers		✓	<a href="#">Drywall</a>
47-2111	Electricians		✓	<a href="#">Electrical</a>
47-2121	Glaziers		✓	<a href="#">Glazier</a>
47-2151	Pipelayers		✓	<a href="#">Plumbing</a>
47-2152	Plumbers, Pipefitters, and Steamfitters		✓	<a href="#">Plumbing</a>
47-2181	Roofers		✓	<a href="#">Roofing</a>
47-2211	Sheet Metal Workers		✓	<a href="#">Metal Fabrication</a>
47-4011	Construction and Building Inspectors	✓	✓	<a href="#">Building and Construction Inspection</a>
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	✓	✓	<a href="#">Line Supervision</a>
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	✓	✓	<a href="#">Communication Electronics</a>
49-2097	Electronic Home Entertainment Equipment Installers and Repairers		✓	<a href="#">Communication Electronics</a>
49-2098	Security and Fire Alarm Systems Installers		✓	<a href="#">Electrical</a>
49-3011	Aircraft Mechanics and Service Technicians	✓	✓	<a href="#">Aircraft Mechanics</a>
49-3023	Automotive Service Technicians and Mechanics		✓	<a href="#">Automobile Mechanics</a>
49-3042	Mobile Heavy Equipment Mechanics, Except Engines		✓	<a href="#">Heavy Equipment Repair</a>
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers		✓	<a href="#">Air Conditioning/Heating Installation/Repair</a>
49-9041	Industrial Machinery Mechanics	✓	✓	<a href="#">Industrial Machinery Repair</a>
49-9051	Electrical Power-Line Installers and Repairers	✓	✓	<a href="#">Power Line Installation and Repair</a>
49-9062	Medical Equipment Repairers		✓	<a href="#">Medical Equipment Repair</a>
51-1011	First-Line Supervisors of Production and Operating Workers	✓	✓	<a href="#">Line Supervision</a>
51-4121	Welders, Cutters, Solderers, and Brazers		✓	<a href="#">Welding/Soldering</a>
53-3032	Heavy and Tractor-Trailer Truck Drivers		✓	<a href="#">Truck and Bus Driving</a>

# Appendix C

## Industry Letters of Support



801 West Bay Drive, Suite 602  
Largo, FL 33770

(727) 584-2321  
Fax (727) 586-3112

[www.centralchamber.biz](http://www.centralchamber.biz)  
[info@centralchamber.biz](mailto:info@centralchamber.biz)

May 1, 2023

To Whom It May Concern:

**The Central Pinellas Chamber of Commerce is pleased to offer this letter in support of the Heavy Equipment Service Technician Training Program offered at Pinellas Technical College (PTC).** The workplace competencies acquired by students in this program will prepare them for successful employment.

The Chamber is committed to actively participating in the Occupational Advisory Committee for this program, providing annual feedback on industry demand and any adjustments needed to accommodate the evolving landscape. PTC's diligent efforts to continually adapt its resources and instructional methods demonstrate a commitment to meeting the needs of the industry.

Moreover, the Heavy Equipment Service Technician training program will not only equip students with technical skills, but also emphasize soft skills that are essential in today's workforce.

We look forward to our continued collaboration with Pinellas Technical College and the exceptional talent that emerges from the Heavy Equipment Service Technician training program.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tom Morrissette", is written over a large blue swoosh that extends from the left side of the page.

Tom Morrissette  
President  
[Tom@CentralChamber.biz](mailto:Tom@CentralChamber.biz)  
727-584-2321



## Peninsular Mechanical Contractors, Inc.

13690 Roosevelt Boulevard  
Clearwater, FL 33762-3809

[www.acservice.com](http://www.acservice.com)

CAC010371

Phone: 727-573-4822 Fax: 727-572-0978

Date: 5/01/2023

Subject: Florida Job Growth Grant – Heavy Equipment Service Technician Training Program

To Whom It May Concern:

I am writing to express our organization's wholehearted support for the heavy equipment program offered at Pinellas Technical College (PTC). The workplace competencies acquired by students in this program will prepare them for successful employment in the Heavy Equipment Industry.

Our organization is committed to actively participating in the Occupational Advisory Committee for this program, providing annual feedback on industry demand and any adjustments needed to accommodate the evolving landscape. PTC's diligent efforts to continually adapt its instructional methods and resources demonstrate a commitment to meeting the current needs of the industry.

Moreover, the Heavy Equipment Service Technician training program will not only equip students with technical skills but also emphasizes soft skills that are essential in today's workforce. We firmly believe that these future graduates will play a critical role in the field and positively impact the industry.

We look forward to our continued collaboration with Pinellas Technical College and the exceptional talent that emerges from the Heavy Equipment Service Technician training program.

Sincerely,

Dave Holcomb

Director of Operation

Peninsular Mechanical Company Inc.



United Rental

8806 Maislin Drive

Temple Terrace, FL 33637

813-302-3005

April 26, 2023

Re: Letter of Support for Heavy Equipment Service Technician Training Program at Pinellas Technical College

To Whom It May Concern:

I am writing to express my company's strong support for the establishment of a Heavy Equipment Service Technician Training Program at Pinellas Technical College. As an industry leader in the equipment rental industry, we recognize the crucial need for skilled and well-trained heavy equipment service technicians. By partnering with Pinellas Technical College, we are certain that this program will have a positive impact on creating a better workforce and a more competitive landscape for our industry.

Our company, United Rentals, has a long-standing presence in the market with an ever-growing demand for competent heavy equipment service technicians. This training program will directly address this need and allow us to hire skilled graduates who have the technical ability and industry-relevant knowledge to maintain and service our heavy equipment.

We believe that the proposed Heavy Equipment Service Technician Training Program at Pinellas Technical College aligns well with our company's vision and long-term goals. Pinellas Technical College has earned itself a solid reputation for providing quality vocational education, and we are excited to be a part of this new endeavor that will undoubtedly contribute to our regional economy and create job opportunities.

Once the training program is established, United Rentals commits to:

1. Offering internships and/or apprenticeships to eligible trainees, providing them with valuable real-world experience.
2. Collaborating to refine the program curriculum, ensuring the inclusion of industry-specific skills that match our evolving needs.
3. Participating in regular meetings with program organizers to improve the program further and ensure continuous alignment with industry demands.
4. Providing career opportunities within our company for skilled and deserving graduates of the program.

In conclusion, United Rentals is proud to support the Heavy Equipment Service Technician Training Program at Pinellas Technical College wholeheartedly. We are eager to collaborate with the college and play an active role in ensuring the program's success. By investing in the future of the heavy equipment industry, we believe that together, we can contribute to the growth of our community and promote a high-functioning, sustainable economy.

Thank you for considering our support as part of your grant application. We are looking forward to witnessing the positive impact of the program.

Sincerely,

John Renda

Service Manager

United Rentals

# DOBBS

EQUIPMENT



# JOHN DEERE

To Whom It May Concern,

As technology advances and more construction is in demand, Dobbs Equipment and other dealerships alike know how crucial it is to find more skilled technicians. The Bureau of Labor Statistics calculated that 46,000 service technicians and mechanics will be needed to fill roles through 2026. As economic growth continues, that number will continue to climb.

It is unfortunate that this industry doesn't get the funds needed for programs to create awareness and equipment to help keep current students up to date with what the industry is using. Creating these programs will benefit everybody for the following reasons, it can draw more attention to the industry which then creates a career path for students, it can help fill the current gap that this industry is seeing, develop skilled technicians which are very sought after currently, create, and fill vacant jobs which will lead to more productivity throughout the industry which benefits everybody.

Dobbs Equipment works together with many vocational programs because we see importance of what funds and programs can do for this industry. I believe in these programs and would encourage you to see that for yourself by coming to one of the many Technician Advisory Board Meetings. Now, let's all work together to make this industry great again.

Thank you,

**Joseph Delaney**  
*Talent Acquisition Recruiter*

**Dobbs Equipment, LLC**

2730 South Falkenburg Road | Riverview, FL 33578  
(O) [813-620-1000](tel:813-620-1000) | (M) [813-538-4222](tel:813-538-4222) |  
[Joseph.Delaney@dobbsequipment.com](mailto:Joseph.Delaney@dobbsequipment.com)

[www.dobbsequipment.com](http://www.dobbsequipment.com)



**DOBBS**  
EQUIPMENT

HITACHI

LeeBoy

TOPCON

BOMAG

FINN





4/27/2023

Subject: Florida Job Growth Grant – Heavy Equipment Service Technician Training Program

To Whom It May Concern:

I am writing to express our organization's wholehearted support for the Heavy Equipment Service Technician Training Program offered at Pinellas Technical College (PTC). The workplace competencies acquired by students in this program will prepare them for successful employment in the Heavy Equipment Industry.

Our organization is committed to actively participating in the Occupational Advisory Committee for this program, providing annual feedback on industry demand and any adjustments needed to accommodate the evolving landscape. PTC's diligent efforts to continually adapt its instructional methods and resources demonstrate a commitment to meeting the current needs of the industry.

Moreover, the Heavy Equipment Service Technician training program will not only equip students with technical skills but also emphasizes soft skills that are essential in today's workforce. We firmly believe that these future graduates will play a critical role in the field and positively impact the industry.

We look forward to our continued collaboration with Pinellas Technical College and the exceptional talent that emerges from the Heavy Equipment Service Technician training program.

Sincerely,

**Joseph Delaney**  
*Talent Acquisition Manager*

**Dobbs Equipment**  
2730 South Falkenburg Road | Riverview, FL 33578  
(O) [813-620-1000](tel:813-620-1000) | (M) [813-538-4222](tel:813-538-4222) |  
[Joseph.Delaney@dobbequipment.com](mailto:Joseph.Delaney@dobbequipment.com)



WIRTTGEN GROUP





Date: April 26, 2023

Subject: Florida Job Growth Grant – Heavy Equipment Service Technician Training Program

To Whom It May Concern:

As leaders of the Association for Commercial Equipment Solutions (ACES), based in Winston-Salem, North Carolina, we are writing to express our organization's wholehearted support for the proposed building of a new facility specifically designed to train workers for employment as heavy (i.e. construction) equipment service technicians. Our association members in the heavy-duty repair industry rely heavily on a robust and healthy pipeline of trained diesel technicians and mechanics. The programs offered at Pinellas Technical College (PTC) play a critical role in that pipeline, for both Florida and the country overall. The workplace competencies acquired by students in this program will effectively prepare them for successful employment in the Heavy Equipment Industry.

Our organization is committed to actively participating in the Occupational Advisory Committee for this program, providing annual feedback on industry demand and any adjustments needed to accommodate the evolving landscape. PTC's diligent efforts to continually adapt its instructional methods and resources demonstrate a commitment to meeting both current and future needs of the industry.

Moreover, the Heavy Equipment Service Technician training program will not only equip students with technical skills but also emphasizes soft skills that are essential in today's workforce. We firmly believe that these future graduates will play a critical role in the field and positively impact the industry.

The ACES team began partnering Pinellas Technical College in 2022 and are mutually energized to build on our common vision to truly make a difference in the industry. We look forward to our continued collaboration with Pinellas Technical College and the exceptional talent that emerges from the Heavy Equipment Service Technician training program.

Sincerely,

Mike Parnitzke(Executive Director) and Jim Reed (VP, Business Development)

Association For Commercial Equipment Solutions (ACES)



05/11/2023

April 24, 2023

Re: Letter of Support for Heavy Equipment Service Technician Training Program at Pinellas Technical College

To Whom It May Concern:

I am writing to express my company's strong support for the establishment of a Heavy Equipment Service Technician Training Program at Pinellas Technical College. As an industry leader in the construction materials industry, we recognize the crucial need for skilled and well-trained heavy equipment service technicians. By partnering with Pinellas Technical College, we are certain that this program will have a positive impact on creating a better workforce and a more competitive landscape for our industry.

Our company, Cemex, has a long-standing presence in the market with an ever-growing demand for competent heavy equipment service technicians. This training program will directly address this need and allow us to hire skilled graduates who have the technical ability and industry-relevant knowledge to maintain and service our heavy equipment.

We believe that the proposed Heavy Equipment Service Technician Training Program at Pinellas Technical College aligns well with our company's vision and long-term goals. Pinellas Technical College has earned itself a solid reputation for providing quality vocational education, and we are excited to be a part of this new endeavor that will undoubtedly contribute to our regional economy and create job opportunities.

Once the training program is established, Cemex commits to:

1. Offering internships and/or apprenticeships to eligible trainees, providing them with valuable real-world experience.
2. Collaborating to refine the program curriculum, ensuring the inclusion of industry-specific skills that match our evolving needs.
3. Participating in regular meetings with program organizers to improve the program further and ensure continuous alignment with industry demands.
4. Providing career opportunities within our company for skilled and deserving graduates of the program.

In conclusion, Cemex is proud to support the Heavy Equipment Service Technician Training Program at Pinellas Technical College wholeheartedly. We are eager to collaborate with the college and play an active role in ensuring the program's success. By investing in the future of the heavy equipment industry, we believe that together, we can contribute to the growth of our community and promote a high-functioning, sustainable economy.

Thank you for considering our support as part of your grant application. We are looking forward to witnessing the positive impact of the program.

Sincerely,

Cody Beard

Director of Maintenance, Cemex Construction Materials of FL, LLC

Maintenance Division, CEMEX Construction Materials of FL, LLC.

CEMEX Company Website: [cemex.com](http://cemex.com)





May 4, 2023

Subject : Pinellas Technical College Heavy Equipment Service Technician Training Program

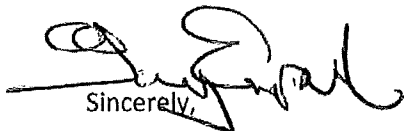
To Whom it May Concern,

I am writing to express our organization's support for the Heavy Equipment Service Technician Training Program to be offered at Pinellas Technical College (PTC). Both the Construction and Infrastructure Industry are in need of trained employees in this field of work. Competencies acquired in this program will prepare them for successful employment in the Heavy Equipment Industry.

Our organization is willing to actively participate in the Occupational Advisory Committee for this program in order to provide feedback on industry demand and curriculum focusing on current needs and practices. The other technical programs offered by PTC indicate the schools desire to adapt its instructional methods and resources, demonstrate a commitment to meeting current, real time industry needs.

The emphasis of Pinellas technical College on developing soft skills in addition to their program's technical training make for a well-rounded employee. Graduates of Pinellas Technical College typically are fully employed, contributing citizens that are an asset to our community.

We look forward to continued collaboration with Pinellas Technical College and the anticipated exceptional talent that emerges from the Heavy Equipment Service Technician Training Program.

  
Sincerely,

Date: May 10, 2023

Re: Letter of Support for Heavy Equipment Service Technician Training Program at Pinellas Technical College

To Whom It May Concern:

I am writing to express my company's strong support for the establishment of a Heavy Equipment Service Technician Training Program at Pinellas Technical College. As an industry leader in the heavy equipment rental industry, we recognize the crucial need for skilled and well-trained heavy equipment service technicians. By partnering with Pinellas Technical College, we are certain that this program will have a positive impact on creating a better workforce and a more competitive landscape for our industry.

Our company, Herc Rentals, has a long-standing presence in the market with an ever-growing demand for competent heavy equipment service technicians. This training program will directly address this need and allow us to hire skilled graduates who have the technical ability and industry-relevant knowledge to maintain and service our heavy equipment.

We believe that the proposed Heavy Equipment Service Technician Training Program at Pinellas Technical College aligns well with our company's vision and long-term goals. Pinellas Technical College has earned itself a solid reputation for providing quality vocational education, and we are excited to be a part of this new endeavor that will undoubtedly contribute to our regional economy and create job opportunities.

Once the training program is established, Herc Rentals commits to:

1. Offering internships and/or apprenticeships to eligible trainees, providing them with valuable real-world experience.
2. Collaborating to refine the program curriculum, ensuring the inclusion of industry-specific skills that match our evolving needs.
3. Participating in regular meetings with program organizers to improve the program further and ensure continuous alignment with industry demands.
4. Providing career opportunities within our company for skilled and deserving graduates of the program.

In conclusion, Herc Rentals is proud to support the Heavy Equipment Service Technician Training Program at Pinellas Technical College wholeheartedly. We are eager to collaborate with the college and play an active role in ensuring the program's success. By investing in the future of the heavy equipment industry, we believe that together, we can contribute to the growth of our community and promote a high-functioning, sustainable economy.

Thank you for considering our support as part of your grant application. We are looking forward to witnessing the positive impact of the program.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nathan Jordan', with a long horizontal flourish extending to the right.

Nathan Jordan

Regional Vice President of Operations



May 5, 2023

Subject: Florida Job Growth Grant – Heavy Equipment Service Technician Training Program

To Whom It May Concern:

I am writing to express Pinellas Suncoast Transit Authority's wholehearted support for the Heavy Equipment Service Technician training program offered at Pinellas Technical College (PTC). Our organization has had a close relationship with PTC for more than a decade. During that time, we've hired many of their graduates who have become successful, long-term employees. We fully believe that this program will equip students with the necessary skills to prepare them for successful employment in the Heavy Equipment Industry.

PSTA actively participates in the Occupational Advisory Committee for this program, providing annual feedback on industry demand, skill requirements, new technologies, and any program adjustments needed to accommodate the evolving landscape. PTC's diligent efforts to continually adapt its instructional methods and resources demonstrate a commitment to meeting the current needs of the industry.

Moreover, the Heavy Equipment Service Technician training program will not only equip students with technical skills but also emphasizes soft skills that are essential in today's workforce. We're looking forward to future graduates of this program entering the local workforce and hopefully joining our team at PSTA. Building our community's heavy equipment maintenance workforce is critical for the field and for our county.

We look forward to our continued collaboration with Pinellas Technical College and the exceptional talent that emerges from the Heavy Equipment Service Technician training program.

Sincerely,

A handwritten signature in blue ink, appearing to read "HLukasik", written over a horizontal line.

Henry Lukasik, Director of Maintenance  
Pinellas Suncoast Transit Authority

A handwritten signature in black ink, appearing to read "PCollins", written over a horizontal line.

Patricia Collins, Director of Human Resources  
Pinellas Suncoast Transit Authority

## Appendix D



# Project Estimate



# FACILITIES, DESIGN AND CONSTRUCTION ESTIMATE SHEET

**Facilities Name:** Pinellas Technical college Clearwater  
**Project #:** \_\_\_\_\_ **Cost Center:** \_\_\_\_\_  
**Estimator:** John Borycens **Date:** 4/21/2023 Revised

## SCOPE OF WORK

Four bay Garage with lifts, roll up doors and hydraulics training room

## DETAILED ESTIMATE

Description	UM	Amount	Unit Cost	Cost
Engineered building framing & sheathing	Sq Ft	5600	\$61.00	\$ 341,600
Hydraulic bus lift	Each	4	\$40,000.00	\$ 160,000
Roll up doors	Each	4	\$12,000.00	\$ 48,000
Air conditioning (Bard Units)	Each	2	\$12,000.00	\$ 24,000
Concrete building pad & outdoor slab	Sq Ft	11,200	\$ 25.00	\$ 280,000
Over head hoist	Each	1	\$10,000.00	\$ 10,000
Training room	Sq Ft	1600	\$ 190.00	\$ 304,000
Male Restroom	Sq ft	150	\$ 1,000.00	\$ 150,000
Female Restroom	Sq Ft	150	\$1,000	\$ 150,000
				\$ -
Electric	Sq Ft	5600	\$55.00	\$ 308,000.00
Plumbing (allow for water main relocate)	Sq Ft	5600	\$25.00	\$ 140,000.00
tree removal	Allowance	5%	\$1,467,600.00	\$ 73,380.00
Site work	Allowance	15%	\$1,467,600.00	\$ 220,140.00
Inflation	Allowance	6%	\$1,467,600.00	\$ 88,056
exploritory site investigations and testing	Allowance	5%	\$1,467,600.00	\$ 73,380
				\$ -
<b>Sub Total</b>				<b>\$ 2,370,556</b>
CM Overhead and profit 4.75%				<b>\$ 112,601</b>
5% Project Contingency				<b>\$ 118,528</b>
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 2,601,685</b>
School Board General Condition				
7.5% Design Services				<b>\$ 195,126</b>
<b>TOTAL PROJECT COST</b>				<b>\$ 2,796,812</b>

**Appendix B:  
Hydraulics and  
Training Equipment  
Estimate**



P. O. Box 2455  
 Winter Park, FL 32790  
 Office 407-645-1500, Fax 407-645-5904  
 Florida only 800-432-2022

Regional Manager:  
 Mark Gaudio  
[mark@dcjaegercorporation.com](mailto:mark@dcjaegercorporation.com)

**Pinellas Technical College-Clearwater**

**Amatrol: Hydraulics Basic, Intermediate & Advanced; Maintenance; Troubleshooting**

**April 24, 2023**

ITEM NUMBER	DESCRIPTION	QTY	COST	TOTAL COST
<b>Hydraulics: Basic, Intermediate &amp; Advanced</b>				
850-C1	<b>Basic Fluid Power Learning System - Single Surface Bench</b> <u>Requires pneumatic power supply or conditioned (dry and filtered) shop air, 16393 or 16391 Hydraulic Oil, 41220 Hand Tool Package.</u>  Includes: (1) 850-CTB-A Controls Technology Bench; (1) 85-HPS Hydraulic Power Supply; (1) Basic Hydraulic Actuator Panel; (1) Basic Hydraulic Valves Panel; (1) Basic Hydraulic Instrumentation Panel; (1) 85-HHF Hydraulic Hose and Fittings Package; (1) Basic Pneumatics Actuator/Valve Panel; (1) Basic Pneumatics Instrumentation Panel; (1) 85-PHF Pneumatic Hose and Fittings Package; (1) 16141 Bench Manifold Kit; (1) NB831 and MB834 Student Curriculum - Interactive PC-Based Multimedia; (1) CB831 and CB834 Instructor's Guide; (1) KB831 and KB834 Instructor's Resource Print CD; (1) DB831 and DB834 Installation Guide; (1) HB831 and HB834 Student Reference Guide.	1	\$24,940.40	\$24,940.40
16391	<b>Hydraulic Oil 10 Gallon</b>	1	\$650.00	\$650.00
41220	<b>Hand Tool Package - Hydraulic Systems</b> <u>Adds to 850-C1, 850-CD1, 850-H1, 850-HD1, 85-BH, 950-HT1, and 96-HYD1.</u>  Includes: (5) Emery Cloth Sets; (1) Socket Set; (1) Torque Wrench; (1) Strap Wrench; (2) Combination Wrench; (1) Screwdriver Set; (1) 6" Rule; (1) Bucket; (1) Allen Wrench Set; (1) Brush ; (1) Degreaser; (1) Flashlight; (1) Dead Blow Hammer; (1) Digital Meter; (1) Oil; (1) O-Ring Set; (1) 3-Drawer Tool Box; (1) Vise Jaws; (1) Wire Brush, (1) Adjustable Wrench 12"; (1) Adjustable Wrench 8"; (1) Bottle and Sprayer, (1) Scissors; (1) Beaker.	1	\$2,158.00	\$2,158.00
85-IH	<b>Intermediate Hydraulics Learning System</b> <u>Requires basic hydraulics system (850-H1, 850-HD1, 850-C1, 850-CD1, or 85-BH) and 79-552 Accumulator Charging Assembly.</u>  Includes: (1) 85-IH-H Intermediate Valve Module; (1) MB832 Student Curriculum - Interactive PC-Based Multimedia; (1) CB832 Instructor's Guide; (1) KB832 Instructor's Resource Print CD; (1) DB832 Installation Guide; (1) HB832 Student Reference Guide.	1	\$8,096.40	\$8,096.40
79-552	<b>Accumulator Charging Assembly</b> <u>Used to charge accumulator in 85-IH, 96-HYD2, and 950-HT1.</u> <u>Requires compressed nitrogen gas to charge accumulator assembly.</u>	1	\$2,106.00	\$2,106.00

85-EH	<b>Electro-Hydraulics Learning System</b> Requires 16019 24VDC power supply. Requires Basic Hydraulics (85-BH, 850-H1, or 850-C1). Use with 85-IH Intermediate Hydraulics is optional. Optional 23160 Spare Parts Kit available.	1	\$7,801.00	\$7,801.00
	Includes: (1) 85-EIP Electrical Control Panel; (1) 85-EVH Electrical Valve Module; (1) MB861 Student Curriculum - Interactive PC-Based Multimedia; (1) CB861 Instructor's Guide; (1) KB861 Instructor's Resource Print CD; (1) DB861 Installation Guide; (1) HB861 Student Reference Guide.			
23160	<b>85-BH, 85-BP, and 85-EF Spare Parts Kit</b>	1	\$1,740.00	\$1,740.00
	Includes: (2) Male Quick Connects, (1) Lead Set, (2) Bulbs, (1) 85-PHF Pneumatic Hose and Fitting Assembly. (4) Hoses, (1) Quick Connect Tee.			
85-AH	<b>Advanced Hydraulics Learning System</b> Requires Basic Hydraulics Learning System (850-H1, 850-C1, or 85-BH) and 85-IH Intermediate Hydraulics.	1	\$2,801.40	\$2,801.40
	Includes: (1) Photo Tachometer, (1) Return Line Filter Assembly, (1) Viscosity gauge, (3) Oil Samples. (1) MB839 Student Curriculum - Interactive PC-Based Multimedia; (1) CB839 Instructor's Guide; (1) KB839 Instructor's Resource Print CD; (1) DB839 Installation Guide; (1) HB839 Student Reference Guide.			
<b>IMT Duty Area 3: Basic Hydraulic Systems</b>				
C50130	<b>Copied and Pasted from ITM Quote</b> Instructor's Guide, Industrial Maintenance Technology Duty 3 - Basic Hydraulic Systems (206-ND3)	1	\$35.00	\$35.00
F50130	<b>On-The-Job Training Guide, Industrial Maintenance Technology Duty 3 - Basic Hydraulic Systems (206-ND3)</b>	1	\$31.00	\$31.00
K50130	<b>Instructor's Resource Print CD, Industrial Maintenance Technology Duty 3 - Basic Hydraulic Systems (206-ND3)</b>	1	\$30.00	\$30.00
	<b>On-Site Delivery, Installation and Training</b>	1	\$2,500.00	\$2,500.00
<b>Total Hydraulics Basic, Intermediate &amp; Advanced:</b>				<b>\$52,889.20</b>
<b>Hydraulics Maintenance:</b>				
950-HM1	<b>Hydraulic Maintenance Learning System</b> <u>Requires 85-HPS3 Hydraulic Power Supply, 16391 Hydraulic Oil, 120V/60Hz/1ph electrical, and PC. For PC requirements, see <a href="http://amatrol.com/support">amatrol.com/support</a>. Optional 23158 Spare Parts Kit available.</u>	1	\$21,278.40	\$21,278.40
	Includes: (1) Mobile Workstation; (1) Hose Set (1) Hose Rack; (1) Flush Cart Module; (1) Hydraulic Fluid Inspection and Service Kit; (1) Hydraulic Component Panel; (1) Hydraulic Fittings Module and Fittings; (1) M19290 Student Curriculum - Interactive PC-Based Multimedia; (1) C19290 Instructor's Guide; K19290 Instructor's Resource Print CD; (1) D19290 Installation Guide; (1) H19290 Student Reference Guide.			
85-HPS3	<b>Hydraulic Power Supply</b> <u>Requires 16393 or 16391 Hydraulic Oil and 120V/60Hz/1ph electrical.</u>	1	\$6,245.20	\$6,245.20
	Includes: (1) Power Supply.			

16391	Hydraulic Oil 10 Gallon	1	\$650.00	\$650.00
23158	950-HM1 Spare Parts Kit  Includes: (2) Male Quick Connects, (1) Sampling Bottle, (2) Hoses, (8) Bins, (2) Buckets, (2) Tees, (1) Pitcher.	1	\$565.40	\$565.40
INSTALL & TRAIN	Installation and Training	1	\$2,500.00	\$2,500.00
<b>Total Hydraulics Maintenance</b>			<b>\$31,239.00</b>	
<b>Hydraulics Troubleshooting:</b>				
950-HT1	Hydraulic Troubleshooting Learning System <u>Requires 208V/60Hz/3ph electrical, compressed air supply, 41220 Hand Tool Package, 79-552 Accumulator Charging Assembly, and 16393 Hydraulic Oil. Optional 23156 Spare Parts Kit available.</u>  Includes: (1) Mobile Workstation; (1) Operator Station; (1) Power Unit Panel; (1) Overrunning Load Panel; (1) Compression Load Panel; (1) Running Load Panel; (1) Tank and Pump Assembly; (1) Unloader Valve; (1) Counterbalance Valve; (1) Steel Weight with locking pin and guard; (3) Pressure Gauges; (1) Vacuum Gauge; (1) Pressure Switch; (1) Flow Meter Assembly; (1) Tank Drain Nozzle; (1) Flush Plate; (4) Springs; (1) Open Circuit Fault Plug; (1) Short Circuit Fault Plug; (1) Lockout/Tagout Kit; (1) BB544 Student Learning Activity Packet; (1) CB544 Instructor's Guide; (1) KB544 Instructor's Resource Print CD; (1) DB544 Installation Guide; (1) HB544 Student Reference Guide.	1	\$69,258.80	\$69,258.80
41220	Hand Tool Package - Hydraulic Systems <u>Required for 850-C1, 850-CD1, 850-H1, 850-HD1, 85-BH, 950-HT1, and 96-HYD1.</u>  Includes: (5) Emery Cloth Sets; (1) Socket Set; (1) Torque Wrench; (1) Strap Wrench; (2) Combination Wrench; (1) Screwdriver Set; (1) 6" Rule; (1) Bucket; (1) Allen Wrench Set; (1) Brush ; (1) Degreaser; (1) Flashlight; (1) Dead Blow Hammer; (1) Digital Meter; (1) Oil; (1) O-Ring Set; (1) 3-Drawer Tool Box; (1) Vise Jaws; (1) Wire Brush, (1) Adjustable Wrench 12"; (1) Adjustable Wrench 8"; (1) Bottle and Sprayer, (1) Scissors; (1) Beaker.	1	\$2,158.00	\$2,158.00
79-552	Accumulator Charging Assembly <u>Used to charge accumulator in 85-IH, 96-HYD2, and 950-HT1. Requires compressed nitrogen gas to charge accumulator assembly.</u>	1	\$2,106.00	\$2,106.00
16393	Hydraulic Oil 30 Gallon	1	\$1,710.80	\$1,710.80
23156	950-HT1 Spare Parts Kit  Includes: (2) Male Quick Connects, (3) Female Quick Connects, (3) Male Fittings, (6) Fuses, (3) Hoses, (3) Couplings.	1	\$380.00	\$380.00
INSTALL & TRAIN	Installation and Training	1	\$2,500.00	\$2,500.00
<b>Total Hydraulics Troubleshooting</b>			<b>\$78,113.60</b>	
<b>ALL TOTAL</b>			<b>\$162,241.80</b>	

Dobb's 4.17.2023	
130 Excavator	\$195,500
450 Dozer	\$146,050
325 Track Loader	\$89,700
524 Loader	\$195,500
620 Grader	\$281,750
145 Roller	\$94,300
	\$1,002,800

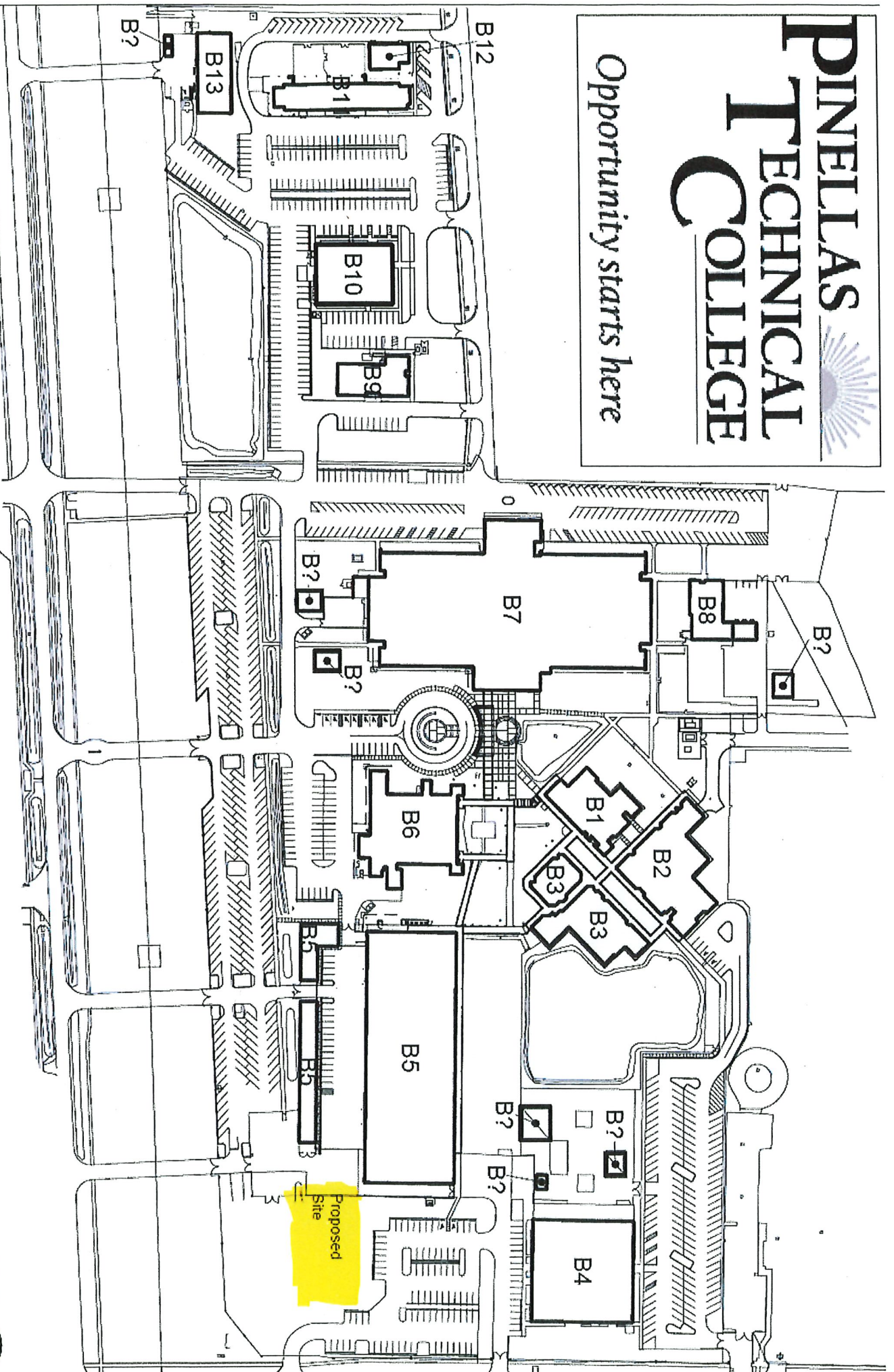
## Appendix E



# PINELLAS TECHNICAL COLLEGE



*Opportunity starts here*



**SITE**  
SCALE: N.T.S.



Name of School	Facility No.	Date: MM.DD.YY
PINELLAS TECHNICAL COLLEGE	119	Scale: N.T.S.
CLEARWATER CAMPUS	Parcel No.	Revised:
MSID # 4541	123	Revised MM.DD.YY