



Florida Job Growth Grant Fund Workforce Training Grant Proposal

Proposal Instructions: The Florida Job Growth Grant Fund Proposal (this document) must be completed and signed by an authorized representative of the entity applying for the grant. Please read the proposal carefully as some questions may require a separate narrative to be completed.

Entity Information

Name of Entity: Pinellas Technical College - Clearwater

Federal Employer Identification Number (if applicable: [Click or tap here to enter text.](#))

Contact Information:

Primary Contact Name: Mark Hunt
Title: Executive Director, Career, Technical and Adult Education
Mailing Address: 6100 154th Ave. N.
Clearwater, Florida 33760
Phone Number: 727.588.6006
Email: Huntwi@pcsb.org

Workforce Training Grant Eligibility

Pursuant to 288.101, F.S., The Florida Job Growth Grant Fund was created to promote economic opportunity by improving public infrastructure and enhancing workforce training. This includes workforce training grants to support programs offered at state colleges and state technical centers.

Eligible entities must submit proposals that:

- Support programs and associated equipment at state colleges and state technical centers
- Provide participants with transferable and sustainable workforce skills applicable to more than a single employer
- Are offered to the public
- Are based on criteria established by the state colleges and state technical centers.
- Prohibit the exclusion of applicants who are unemployed or underemployed.



1. Program Requirements:

Each proposal must include the following information describing how the program satisfies the eligibility requirements listed on page 1.

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

Composites Manufacturing. This new program will serve multiple manufacturers of composite components used in the aerospace/aviation industries by providing training to students from across west central Florida (Pinellas, Hillsborough, Pasco, Manatee and Polk Counties). The program will be open to the public through the established entry criteria for Pinellas Technical College and will utilize curriculum outcomes relevant to this emerging manufacturing technology identified by industry partners. Technical instruction in the processes and materials used composite manufacturing facilities will enable students to enter the workforce with the necessary skills for success and progress in this career path. The program structure will be a hybrid apprenticeship model where by applicants for positions with participating manufacturers will be referred to the training program to complete the Manufacturing Core of approximately 400 hours. The core will provide students the fundamental job skills necessary for successful entry into the manufacturing workplace and will qualify students for employment with participating manufacturers. Core completers will be hired by participating manufacturers, working while they complete phase two of the technical training. Phase two will provide intermediate level skill training combined with on-the-job experiences advancing participants to a level of skill proficiency applicable to all segments of the manufacturing process. Upon completion of the program, participants will be encouraged to continue their education with St. Petersburg College through numerous A.S. Degree programs such as Engineering Technology extending the career ladder.

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

This proposal will provide start-up funding for equipment, supplies, and instructional materials to establish this unique training program at Pinellas Technical College. Additionally, grant funds will be allocated for to support the tuition and fees for the first two cohorts of students entering the program.

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

The development of this program has been a collaborative effort between Pinellas Technical College, St. Petersburg College, Pinellas Economic Development (PCED), Space Florida and AAR Manufacturing. Representation of the manufacturing industry and employers comes through participation of PCED, AAR and Space Florida to define the specific needs of the composite manufacturing industry. The content of the program is a product of this collaboration and the fruits of composite manufacturing programs established in California and Pennsylvania. These other programs are well established and provided the foundation for development of program content. The core



(phase one) of the program provides foundational skill training through a broad range of skills common to all employers and composite manufacturing environments. Phase Two (apprenticeship) will allow the apprentice to learn the organizational processes and skills necessary for success with the employer and can be flexible to multiple participating employers. Phase three (degree attainment) provides participants the opportunity to earn an A.S. Degree at SPC in one of several degree paths, including Engineering Technology and Business Management.

D. Does this proposal support a program(s) that is offered to the public?

Yes No

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

Using the FIDOE curriculum framework of Advanced Manufacturing as the guidepost, PTC and SPC worked together to embed industry needs with the state standards. These criteria were used to create the pathway of core - apprenticeship and A.S. Degree that yields broad opportunity for students and meets the needs of employers.

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

Yes No

G. Describe how this proposal will promote economic opportunity by enhancing workforce training. Please include the number of jobs 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.

Manufacturing is one of the top ten fastest growing employment categories in the state of Florida (Florida Trend, August 2017) with aerospace and aviation sectors being the largest growth areas within the manufacturing group. Within Pinellas County there are over 1,000 manufacturers employing over 30,000 residents. Aerospace vehicle and defense manufacturing infuses \$355,548,000 into the Tampa Bay regional economy annually (Pinellas County Economic Development data July 2017). Projections of Composite Manufacturing program completions and placements in this industry show that over the next five years nearly 300 highly trained employees can enter this workforce supporting greater growth in this sector.

2. Additional Information:

A. Is this an expansion of an existing training program? Yes No

If yes, please provide an explanation for how the funds from this grant will be used to enhance the existing program.

Click or tap here to enter text.

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



Yes No

If yes, please indicate the targeted industries with which the proposal aligns.

If no, with which industries does the proposal align?

Aviation and Aircraft Parts Manufacturing, Maintenance Repair and Overhaul of Aircrafts, Space Vehicles and Guided Missile Manufacturing

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

Yes No

If yes, please indicate the occupation(s) with which the proposal aligns.

If no, with which occupation does the proposal align?

511011- First Line Supervisor of Production & Operating Workers, 514041 –

Machinist

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) where the training will be available.

Classroom-based at Pinellas Technical College, Clearwater, Pinellas County.

E. Indicate the number of anticipated enrolled students and completers.

Annual Enrollment – 50 Annual Completion – 48

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

Phase 1 Core – one semester

Phase 2 Apprenticeship – one year

Phase 3 – Approximately one-year with articulated credit

Begin Date: January 2018

End Date: Core – 06/2018, Apprenticeship-06/ 2019

G. Describe the plan to support the sustainability of the proposal.

The program will be supported beyond the grant period through tuition and fees to students and Florida Department of Education Workforce Funding for reported performance and enrollment data.



H. Identify and certifications, degrees, etc. that will result from the completion of the program. Please include the Classification of Instructional Programs (CIP) code if applicable.

CIP #0615040606

Certifications

- AMCMA001 - Certified Composites Technician
- MANSI001 - Manufacturing Technician

A. S. Degree Options

- Engineering Technology
- Business Management

I. Does this project have a local match amount? Yes No

If yes, please describe the entity providing the match and the amount.

Pinellas County Schools - \$331,560 annually (Dedicated Facility - \$189,000, Utilities - \$70,560, Instructor Salary - \$72,000)

J. Provide any additional information or attachments to be considered for the proposal.

Letters of Support

- St. Petersburg College
- AAR Composites
- Pinellas County Economic Development

Attached

- Budget Narrative
- Timeline for program implementation

3. Program Budget

Estimated Costs and Sources of Funding: Include all applicable workforce training costs and other funding sources available to support the proposal.

A. Workforce Training Project Costs:

Equipment	\$ 251,548
Personnel	\$ 80,000
Facilities	\$ 0
Tuition	\$ 87,600
Training Materials	\$ 6,150
Other	\$ 34,530
	Specify: Consumable Supplies
Total Costs	\$ 459,828.00



B. Other Workforce Training Project Funding Sources

- City/County \$ Click or tap here to enter text.
- Private Sources \$ Click or tap here to enter text.
- Facilities \$ Click or tap here to enter text.
- Other (grants, etc) \$ Click or tap here to enter text.
- Specify: Click or tap here to enter text.
- Total Other** \$ Click or tap here to enter text.
- Total Amt Requested** \$ Click or tap here to enter text.

Note: The total amount requested must equal the difference between the workforce training project costs in 3.A. and the other workforce training project funding sources in 3.B.

- 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.

Budget narrative and implementation time line attached to this proposal.

4. Approvals and Authority

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

School Board Approval

- 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 group for a period of at least six months.

Bi-weekly on the second and fourth Tuesday of each month

- ii. State whether that group can hold special meetings, and if so, upon how many days' notice.

Special meetings not required due to frequency of Board action.

- C. Attach evidence that the undersigned has all necessary authority to execute this proposal on behalf of the entity. This evidence may take a variety of forms, including



but not limited to: a delegation of authority, citation to relevant laws or codes, policy documents, etc.

I, the undersigned do hereby certify that I have express authority to sign this proposal on behalf of the above-described entity.

Name of Entity: Pinellas Technical College

Name and Title of Authorized Representative: Mark Hunt, Executive Director

Representative Signature:

A handwritten signature in black ink, appearing to read 'Mark Hunt', written over the printed text 'Representative Signature:'.

Signature Date:

8/10/17



Vision:
100% Student Success

Mission:
"Educate and prepare each student for college, career and life."

August 9, 2017

ADMINISTRATION BUILDING

301 Fourth St. SW
P.O. Box 2942
Largo, FL 33779-2942
Ph. (727) 588-6000

**SCHOOL BOARD OF
PINELLAS COUNTY, FLORIDA**

Chairperson
Peggy L. O' Shea

Vice Chairperson
Rene Flowers

Carol J. Cook
Terry Krassner
Joanne Lentino
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Eileen M. Long

Superintendent
Michael A. Grego, Ed.D.

To Whom It May Concern:

Pinellas County Schools encourages the acquisition and utilization of supplemental funding to support implementation of its strategic initiatives for student learning, achievement and college and career readiness.

As such, Mr. Mark Hunt, Executive Director, Career, Technical and Adult Education has permission to apply for the Composite Manufacturing grant for enhancing Career, Technical and Adult Education programs.

Sincerely,

Mary R. Conage, Ed.D.
Director, Special Projects
Pinellas County Schools

**Pinellas Technical College
Composite Manufacturing**

EQUIPMENT	Qty	Unit Cost	Total Cost
Drill Press (Floor Mount)	1	\$700.00	\$700.00
Band Saw (Wood & Metal)	1	\$2,075.00	\$2,075.00
Disc Sander	1	\$1,095.00	\$1,095.00
Table Saw	1	\$3,340.00	\$3,340.00
Metal Shear	1	\$2,425.00	\$2,425.00
Universal Box & Pan Break	1	\$1,410.00	\$1,410.00
Bench Grinder	1	\$2,047.00	\$2,047.00
Curing Oven	1	\$55,620.00	\$55,620.00
Freezer	1	\$5,545.00	\$5,545.00
Hot Bonder	1	\$35,785.00	\$35,785.00
Downdraft table (2)	2	\$6,500.00	\$13,000.00
Disc/Belt Sander (Combo)	1	\$790.00	\$790.00
Table Router	1	\$1,285.00	\$1,285.00
Egg Cups/w bushings, 1/2 insert	14	\$190.00	\$2,660.00
Feeler Gauges (0.003-0.018)	14	\$6.00	\$84.00
Go-No Go Gauges (+/-0.003)	14	\$20.00	\$280.00
Rivet Height Gauge	14	\$20.00	\$280.00
Hi-Lok Pin Protrusion Gauge	14	\$10.00	\$140.00
Hi-Lok Ratchet set	13	\$30.00	\$390.00
Drill motors (2000 RPM)	14	\$170.00	\$2,380.00
Air Hoses	14	\$15.00	\$210.00
C-Clamps (1")	70	\$4.00	\$280.00
C-Clamps (2")	70	\$4.50	\$315.00
C-Clamps (3")	70	\$5.00	\$350.00
Cleco's (3/32")	140	\$3.00	\$420.00
Cleco's (5/32")	140	\$3.50	\$490.00
Cleco's (1/8")	140	\$4.00	\$560.00
Reamer, Carbide 5/16" (0.3125)	24	\$5.00	\$120.00
Reamer, Carbide (0.250)	24	\$5.00	\$120.00
Drill Bit, Spade (#30), carbide	24	\$5.00	\$120.00
Drill Bit, Spade (#40), carbide	24	\$5.00	\$120.00
Drill Bit, Spade (0.191), carbide	24	\$5.00	\$120.00
Drill Bit, Spade (0.1998), carbide	24	\$5.00	\$120.00
Drill Bit, Spade (0.296), carbide	24	\$5.00	\$120.00
Nut Plate Assembly Jig	13	\$35.00	\$455.00
Fillet Spoon	13	\$25.00	\$325.00
Sealer Gun (Semco)	13	\$250.00	\$3,250.00
Sealer Mixer (Semco)	1	\$7,200.00	\$7,200.00
Deburring tool (Aluminum)	24	\$30.00	\$720.00
Deburring tool, diamond (Composite)	24	\$40.00	\$960.00
Countersink (.187), 100 deg.	24	\$20.00	\$480.00
Countersink (.196), 100 deg.	24	\$20.00	\$480.00
Countersink (.125), 100 deg.	24	\$20.00	\$480.00
Countersink Gauge	2	\$450.00	\$900.00
Dotco Die Grinder	13	\$180.00	\$2,340.00
Sander, 90 degree	13	\$90.00	\$1,170.00
Hi-Lok Gun	13	\$530.00	\$6,890.00
Hi-Lok Removal Pliers	13	\$35.00	\$455.00
Rivet Cutter	13	\$45.00	\$585.00
Rivet Shaver	13	\$125.00	\$1,625.00
CherryMax Grip Gauge	13	\$11.00	\$143.00

**Pinellas Technical College
Composite Manufacturing**

CherryMax Gun	13	\$1,200.00	\$15,600.00
Jo-Bolt Gun	4	\$1,200.00	\$4,800.00
Rivet Squeeze/w Squeeze Set	6	\$30.00	\$180.00
Power Squeeze/w Squeeze Set	2	\$900.00	\$1,800.00
Hi-Lok Grip Gauge	13	\$12.00	\$156.00
Jo-Bolt Grip Gauge	13	\$12.00	\$156.00
Blind Rivet Grip Gauge	13	\$12.00	\$156.00
Plastic Mallet (small)	13	\$31.00	\$403.00
8oz. Ball Peen Hammer	13	\$11.00	\$143.00
8" Bastard File/w handle	13	\$4.50	\$58.50
Scale, 6"	13	\$11.50	\$149.50
Scale, 12"	13	\$22.00	\$286.00
Cleco Pliers	13	\$6.00	\$78.00
6" vise Grips	13	\$15.00	\$195.00
3/32 Pin punch	13	\$5.00	\$65.00
1/8 Pin Punch	13	\$5.00	\$65.00
5/32 Pin Punch	13	\$5.00	\$65.00
Slotted Screwdriver	13	\$5.00	\$65.00
Phillips Screwdriver	13	\$5.00	\$65.00
Punch, Spring	13	\$5.00	\$65.00
Mag. Card Lens	13	\$4.00	\$52.00
Wrench, Allen (5/64")	13	\$2.50	\$32.50
Marker, Silver	13	\$2.50	\$32.50
Marker, Black	13	\$2.50	\$32.50
Pencil, Lead	13	\$0.50	\$6.50
Pencil, Yellow	13	\$1.00	\$13.00
Spoon, Fillet	13	\$13.45	\$174.85
Layup Mylar templates	12	\$100.00	\$1,200.00
Template, Square (8 x 8)	12	\$100.00	\$1,200.00
Template, Rectangle (___ x ___)	12	\$100.00	\$1,200.00
Template, Step-Up Frame	12	\$100.00	\$1,200.00
Z-Mold Lay-Up Kit	12	\$100.00	\$1,200.00
Hat (-C) Mold Hat Mold Lay-Up Kit	12	\$100.00	\$1,200.00
Shim, Brass (.005"x6"x180")	6	\$44.55	\$267.30
Vacuum Guages	14	\$30.00	\$420.00
Vacuum Ports	28	\$50.00	\$1,400.00
Mini-Vacuum Pumps	16	\$50.00	\$800.00
Air Hoses (15')	14	\$15.00	\$210.00
Air Hoses, Curing Oven	14	\$15.00	\$210.00
Scissors	13	\$30.00	\$390.00
Scale, 12"	14	\$22.00	\$308.00
Scale, 6"	14	\$11.00	\$154.00
Putty Knife	14	\$3.95	\$55.30
Protractor	14	\$15.00	\$210.00
Roller	14	\$4.95	\$69.30
Utility Knife	14	\$3.69	\$51.66
Exacto Knife	14	\$3.79	\$53.06
Marker, Black	14	\$1.59	\$22.26
Scraper, Plastic	14	\$4.50	\$63.00
Teflon Paddle (Slick Stick)	14	\$5.75	\$80.50
Fillet Spoon	13	\$25.00	\$325.00
Marker, Sharpie	14	\$1.59	\$22.26
Marker, Silver	14	\$2.95	\$41.30

**Pinellas Technical College
Composite Manufacturing**

Blow Dryer (Yellow Bird)	13	\$35.00	\$455.00
- Flat (16" x 20" x 0.5")	14	\$150.00	\$2,100.00
- Z Mold	14	\$782.00	\$10,948.00
- C Mold	14	\$782.00	\$10,948.00
PC Computer	12	\$1,075.00	\$12,900.00
Printer	1	\$495.00	\$495.00
Shipping	1	\$13,200.00	\$13,200.00

Equipment Total

\$251,547.79

Supplies

Item	Qty	Unit Cost	Total Costs
Blue Masking Tape, 2 inch	1	\$181.00	\$181.00
Blue Masking Tape, 1 inch	1	\$90.00	\$90.00
Keyback Wipers	1	\$225.00	\$225.00
Cotton Swabs	1	\$27.30	\$27.30
Nozzles 420 Small Tip	1	\$30.00	\$30.00
Desoclean-18311186	24	\$5.25	\$126.00
Desoclean-18311097	1	\$42.00	\$42.00
Boelube-18722643	15	\$3.09	\$46.35
Boelube-18722641	1	\$50.00	\$50.00
Partall Film # 10-18304321	1	\$15.50	\$15.50
Partell Paste (#2)	1	\$42.05	\$42.05
Mixing Sticks	1	\$15.05	\$15.05
Sealer (Semkote)	9	\$20.00	\$180.00
Safety glasses	25	\$10.00	\$250.00
Safety goggles	25	\$3.25	\$81.25
Box Knife	10	\$7.50	\$75.00
Plate, Aluminum (4" x 8")	12	\$9.50	\$114.00
Plate, Aluminum (4.5" x 5.5")	12	\$7.50	\$90.00
Plywood (4'x8'x1/2")	2	\$20.00	\$40.00
Clock Mechanism (#10165)	12	\$2.50	\$30.00
Strip, Aluminum (6' x .125)	24	\$4.00	\$96.00
Strip, Aluminum (5' x .125)	24	\$3.50	\$84.00
Clock Base	13	\$15.00	\$195.00
Release Film (A4000)	2	\$255.00	\$510.00
Bagging Film	1	\$820.00	\$820.00
Breather Cloth (N-10)	1	\$500.00	\$500.00
CHR6	1	\$800.00	\$800.00
Blue Masking Tape, 2 inch	1	\$181.00	\$181.00
Blue Masking Tape, 1 inch	1	\$90.00	\$90.00
Tacky Tape (Dum dum)	10	\$76.00	\$760.00
Tape (855), 1"	10	\$37.84	\$378.40
Tape (855), 2"	10	\$75.68	\$756.80
Honeycomb (6x6x.5)	5	\$145.00	\$725.00
Nitrile Gloves			
Small	1	\$28.50	\$28.50
Large	1	\$28.50	\$28.50
Shop Coats			
Large	25	\$5.95	\$148.75

**Pinellas Technical College
Composite Manufacturing**

X-Large	25	\$5.95	\$148.75
XX-Large	25	\$5.95	\$148.75
Mask	100	\$15.51	\$1,551.00
Glove, 4H	100	\$4.99	\$499.00
Partell Paste (#2)	1	\$42.05	\$42.05
Acetone (or equavilent)	5	\$22.00	\$110.00
Mixing Sticks	1	\$15.05	\$15.05
Plastic Spreader	100	\$0.65	\$65.00
Desoclean-18311186	24	\$5.25	\$126.00
Desoclean-18311097	1	\$42.00	\$42.00
Hi-Lok, Flush head	150	\$1.00	\$150.00
Hi-Lok, Protruding head	150	\$1.80	\$270.00
Hi-Lok -4	200	\$1.90	\$380.00
Hi-Lok -7	100	\$1.50	\$150.00
Hi-Lok Collar with washer	100	\$4.00	\$400.00
Hi-Lok Collar, regular?	200	\$3.20	\$640.00
Hi-Lok Collar, steel	50	\$5.00	\$250.00
Hi-Lok Washer	350	\$1.40	\$490.00
Hi-Lok -4, Collar	200	\$3.20	\$640.00
Hi-Lok -7, Collar	200	\$3.20	\$640.00
Solid Rivet (#30 hole)	100	\$1.25	\$125.00
Solid Rivet (#40 hole)	100	\$1.35	\$135.00
Jo-Bolt	400	\$1.60	\$640.00
Blind Rivet, CherryMax	400	\$1.30	\$520.00
Blind Rivet, (CherryMax)	400	\$1.35	\$540.00
Nutplate	200	\$1.80	\$360.00
Thumbscrew	200	\$4.50	\$900.00
Misc Sanding supplies			\$2,500.00
Misc cleaner/spray			\$4,500.00
Misc lubricants			\$1,500.00
Misc hand towels			\$2,200.00
Misc Shipping			\$6,000.00
Supplies Total			\$34,530.05

Training Materials

Item	Qty	Unit Cost	Total Costs
Textbooks	30	\$175.00	\$5,250.00
Project Packets	60	\$15.00	\$900.00

Training Materials Total

\$6,150.00

Personnel

Description		Total Costs
Stipends (developing curriculum, program implementation)	Year One	\$20,000.00
Program Coordinator (business partnership development, program management, grant reporting)	Year One	\$60,000.00

Personnel Total

\$80,000.00

**Pinellas Technical College
Composite Manufacturing**

Tuition

Description	Hrs	Per Clock Hour	Total Costs
Technical College Tuition for 50 students at 600 clock hours each	30000	\$2.92	\$87,600.00

Tuition

\$87,600.00

**Pinellas Technical College
Composite Manufacturing Grant
Implementation Timeline**

April 2017 – July 2017 – Partnership Development

August 2017 – October 2017

- Equipment list development
- Facility Preparation
- Curriculum Development/ Refinement

August 2017 – Grant Application

October 2017 – Equipment Procurement

October 2017 – January 2018

- Student Recruitment (core)
- Apprenticeship Committee Development
- Apprenticeship Standards Development

February 2018 – March 2018

- Apprenticeship Application Submission for DOL and DOE
- Identify Instructor

March 2018 – July 2018 – Cohort 1/ Phase One Core

August 2018 – August 2019 – Cohort 1/ Phase Two Apprenticeship

SPC ST. PETERSBURG COLLEGE

Florida Department of Economic Opportunity
107 E. Madison Street
Tallahassee, Florida 32399

RE: Florida Job Growth Grand Fund

Proposal Review Committee,

St. Petersburg College (SPC) is proud to join **Pinellas Technical College** (PTC), The Pinellas Economic Development Council and Space Florida in its Florida Job Growth Grant Fund proposal for technical training in **Composite Manufacturing**.

Composite manufacturing in the aerospace and aircraft industry is emerging as an important economic engine in West Central Florida. Manufacturers have expressed significant difficulties in finding a resource of local workers to fill the growing need for craftsmen with adequate knowledge of the fundamental skills for success in composite manufacturing. The Pinellas County School Board, Pinellas Technical College, and St. Petersburg College are collaborating with local employers to establish a training program that will provide technical certificate (PTC) and Associate degree (SPC) opportunities to participants entering the composite manufacturing career path.

The program will introduce new workers to the composite manufacturing fundamentals of safety, processes, materials and workplace skills. Completers of the core will be referred to employer groups for consideration of entry-level positions. Once placed, the participant becomes an apprentice with employer sponsorship for the intermediate technical skill component involving more advanced technical training, full-time work experience culminating in industry certification, award of a technical certificate, and permanent full-time employment. Additional educational opportunities will be available through numerous A.S. Degree programs at St. Petersburg College, such as Engineering Technology.

We are excited by the opportunities for students, the benefits to employers, and the positive impact to the economy of West Central Florida the partnership brings. This training program is unique to West Florida and has the potential to draw students from beyond the Suncoast to support the broader economy of Florida.



Natavia Middleton, Ph.D.
Dean of Natural Sciences and Engineering
St. Petersburg College
(727) 398-8288
Middleton.Natavia@spcollege.edu



Composites

Florida Department of Economic Opportunity
107 E. Madison Street
Tallahassee, Florida 32399

RE: Florida Job Growth Grand Fund

Proposal Review Committee,

AAR Composites (AAR) is proud to join Pinellas Technical College (PTC), St. Petersburg College (SPC), The Pinellas Economic Development Council and Space Florida in its Florida Job Growth Grant Fund proposal for a technical training program in **Composite Manufacturing**.

As a manufacturer of composite aerostructures and aircraft interiors, AAR employees must have the required knowledge, skills and abilities to fabricate high quality products for our customers. Composite manufacturing is a unique process requiring particular skillsets. With the different physical and chemical properties of composite material and the intricate process of how composites are stored, handled and manufactured, it is a craft not easily learned on the job. Consequently, it is difficult to recruit local workers to fill the growing need for craftsman with adequate knowledge of the fundamentals in composite manufacturing.

Our business partnerships with PTC, SPC and The Pinellas Economic Development Council to develop a training program in composite manufacturing will strengthen our ability for success while creating new career paths and job opportunities for the community.

AAR has strategic growth initiatives to become a \$100M business within the next five years, and we will need the right talent to help us grow. As we continue to win new business, there will be a need to hire additional craft workers to meet production demand. AAR will recruit directly from the training program graduates to staff production job openings. This will be a great resource to hire qualified workers with composite manufacturing knowledge that can have an immediate impact on productivity to ensure customer satisfaction. AAR has built the foundation of the training courses and curriculum, as well as the asset list, cost effort and research involved in constructing a solid training program.

We are excited by the opportunities this training program will create for students, the community, the local economy, as well as the benefits to our business and other employers in the state of Florida.

Daniel J. FitzPatrick
General Manager
AAR Composites
(727) 533-3202
dan.fitzpatrick@aarcorp.com



Florida Department of Economic Opportunity
107 E. Madison Street
Tallahassee, Florida 32399

August 4, 2017

RE: Florida Job Growth Grant Fund

Proposal Review Committee,

Pinellas County Economic Development (PCED) is proud to support **Pinellas Technical College** (PTC), St. Petersburg College and Space Florida in its Florida Job Growth Grant Fund proposal for technical training in **Composite Manufacturing**.

Composite manufacturing in the aerospace and aircraft industry continues to grow in the State of Florida. We have worked with a local aerospace composite manufacturer and other local companies in similar composite manufacturing enough to know that skilled workers are scarce. We are also aware that the costs of hiring unskilled workers in this specialized field are high. The Pinellas County School Board, Pinellas Technical College, and St. Petersburg College are collaborating with local employers to establish a training program that will provide a technical certificate (PTC) and Associate degree (SPC) opportunities to participants entering the composite manufacturing career path.

The program will introduce new workers to the composite manufacturing fundamentals of safety, processes, materials and workplace skills. Certificates and advanced degrees will also be part of the strategy for career pathways. This is an outstanding workforce training opportunity that can set Florida above its already high ranking for Aviation / Aerospace. Students, Employers, West Central Florida and Florida's aerospace/aviation and manufacturing industry will greatly benefit from this program.

Pinellas County Economic Development fully supports Pinellas Technical College's grant request to initiate technical training for composite manufacturing.

Mike Meidel, Director
Pinellas County Economic Development
727-464-8114
mmeidel@pinellascounty.org