



2018-2019 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. If additional space is needed, attach a word document with your entire answer.

Entity Information

Name of Entity: Palm Beach State College

Federal Employer Identification Number (if applicable): [REDACTED]

Primary Contact Name: Ava L. Parker

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Workforce Training Grant Eligibility

Pursuant to 228.101, 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:

(If additional space is needed, attach a word document with your entire answer.)

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.

The proposed program is the Center for Excellence in Engineering Technology. (See Attachment 1)

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

The Center will serve as a model program for the Florida College System to replicate a multidisciplinary approach to teaching engineering. (Refer to Attachment 1)

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

Participants earn certificates and industry credentials that lead to an A.S. in Engineering Technology and bachelor degrees. (Refer to Attachment 1)

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

This program will be offered to the public in the same way as all other degree and CCC programs. (Refer to Attachment 1)

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

The proposed programs are approved by FLDOE academic frameworks for College Credit Certificates and will be concentrations within a new A.S. Advanced Manufacturing degree. (See Attachment 1)

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

Yes No

The project supports training for unemployed, underemployed and incumbent workers. (Refer Attachment 1)

- 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.

According to EMSI data, by 2023 Palm Beach County anticipates 4,041 jobs with an average hourly wage of \$28.82. PBSC anticipates 1,900 students will earn a College Credit Certificate and industry recognized credential by 2023. Nearly half of the projected jobs will be filled with PBSC completers who will reinvest their wages back into Palm Beach County. Please refer to Attachment 1.

2. Additional Information:

(If additional space is needed, attach a word document with your entire answer.)

- 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.

The funds will purchase equipment for training, faculty to deliver training, lab assistants wo support students, post-secondary advisor to recruit, retain participants and place them in jobs.

- B.** Does the proposal align with Florida’s Targeted Industries? Yes No
(View Florida’s Targeted Industries here.)

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

Aviation/Aerospace, Manufacturing, Clean Tech, Homeland Security/Defense, and other manufacturing.

- C.** Does the proposal align with an occupation(s) on the Statewide Demand Occupations List and/or the Regional Demand Occupations List? (View Florida’s Demand Occupations List here.) Yes No

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

The occupations align with the Statewide Demand Occupations list. (Refer to Attachment 1).

- 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.

Training will be delivered in person, in the classroom using multi-disciplinary laboratory and project-based activities. (Refer to Attachment 1)

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

In the first year of the project, PBSC anticipates enrolling 500 students in the CCC's with a 95% completion rate (475 completers) earning a CCC and industry credential. By 2023, PBSC anticipates enrolling 2,000 in the CCC's with 1,900 completers. (Refer to Attachment 1)

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

Begin Date: 1/1/2019 End Date: 06/31/2023

To accelerate time to completion of the CCC's, courses will be continuously offered each semester. Participants will earn a CCC in less than 18 months.

- G.** Describe the plan to support the sustainability of the program after grant completion.

The CCCs are earned within 12-18 months and will be sustained by tuition and student fees. The college commits to sustaining the Center's personnel, maintenance of equipment and supporting its Business Partnership Advisory Council members through a continuous curriculum and program review

- H.** Identify any certifications, degrees, etc. that will result from the completion of the program. Please include the Classification of Instructional Programs (CIP) code and the percent of completer in each code, corresponding with Section E.

Please refer to Attachment 1 for a list of College Credit Certificates and CIP codes. The College Credit Certificates lead to the Associate of Science degree in Engineering Technology.

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

Yes No

If yes, please describe the entity providing the match and the amount (Do not include in-kind).

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

Attachment A of the proposal is a list of committed industry partner letters and Attachment B is a list of more than 90 members of PBSC's Business Advisory Council that provides support to the Engineering Technology program.

3. Program Budget

(If additional space is needed, attach a word document with your entire answer.)

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

1.) **Total Amount Requested** \$ 2,060,919
 Florida Job Growth Grant Fund

2.) **Other Workforce Training Project Funding Sources:**

City/County \$ 0
 Private Sources \$ 0

Other (grants, etc.) \$ 0
 Total Other Funding \$ 0

Please Specify: _____

3.) **Workforce Training Project Costs:**

Equipment \$ 665,560
 Personnel \$ 1,068,720
 Facilities \$ 200,000
 Tuition \$ 0
 Training Materials \$ 10,000

Other \$ 18,500 + \$98,139
Total Project Costs \$ 2,060,919

Please Specify: Indirect Cost

Note: The total amount of the project should equal the total amount requested plus the total other funding.

- 4.) 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.

Refer to Attachment 1 for detailed budget narrative of the Center for Excellence in Engineering Technology. The College requests two years of funding to develop the Center with a six month implementation period from January 1, 2019 to July, 31, 2019 to purchase and install equipment, hire personnel and develop curriculum. The College commits to sustaining the project after the funding expires by December 31, 2021.

4. Approvals and Authority

(If additional space is needed, attach a word document with your entire answer.)

- 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)?

President Ava L. Parker has the authority to accept and execute the grant award. Attached is Board Policy 6Hx-19-1.05.

- 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.
- ii. State whether entity is willing and able to hold special meetings, and if so, upon how many days' notice.

N/A

- 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.


President Ava L. Parker has the authority to accept and execute the grant award. Attached is Board Policy 6Hx-19-1.05.

WORKFORCE TRAINING GRANT PROPOSAL

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 proposal is truthful and accurate and no material fact has been omitted.

Name of Entity: Palm Beach State College

Name and Title of Authorized Representative: Ava L. Parker, J.D., President

Representative Signature: 

Signature Date: 10/2/18

Attachment 1

1. Program Requirements:

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

Palm Beach State College proposes a robust, comprehensive training initiative called **“The Center for Excellence in Engineering Technology”** (The Center) that will deliver trained, skilled and credentialed workers to Enterprise Florida’s targeted industry sectors: *aviation/aerospace, manufacturing, clean tech, homeland security/defense, and other manufacturing such as the marine industry*. Among the corporate partners PBSC works with in these sectors which will be participating in specific activities include:

Targeted Industry Sector	Industry Partner
Aviation/aerospace	Belcan Engineering
	Florida Turbine Technologies
	Lockheed Martin
	Parametric Solutions
Manufacturing	Niagra Bottling
	Solar Tech Universal
	Power Systems Manufacturing
	Everglades Equipment
Clean Tech	Tripp Electric Motors
	Solar Tech Universal
	Sugar Cane Growers Cooperative of Florida
Homeland Security/Defense	SV Microwave
	Crossmatch
	Lockheed Martin
	Pratt & Whitney

Letters of commitment and support from each of these Industry Partners, as well as a summary of their participation is provided in Attachment A.

The proposed multi-campus Center, a collaboration between the Belle Glade and Palm Beach Gardens campuses, will address the area’s unmet need for highly trained, middle-skill engineering workers in the targeted industries; and provide a collaborative, multidisciplinary approach to engage, recruit, train and graduate engineering students.

Currently, PBSC offers engineering technology support specialist and rapid prototyping specialist College Credit Certificates (CCC’s) that matriculate to three Engineering Technology Associate of Science (AS) concentration specializations at the Palm Beach Gardens campus. Total enrollment in the current program is 427 students who will potentially complete their CCC and/or AS within the next 18 to 24 months. Ninety percent of PBSC completers in these fields become

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employed upon graduation. From Fall 2015 to Summer 2018, the College graduated 33 students in the Electrical Power Technology and Engineering Technology AS programs, and 31 of those graduates, or 93% became employed immediately upon graduation.

At the Center, the College will introduce three new college credit certificates (CCCs) that align to industry credentials; industrial technician (mechatronics), automation, and lean manufacturing, and a new advanced manufacturing concentration for the existing Engineering Technology AS degree. The CCC’s articulate toward the new advanced manufacturing concentration in the Engineering Technology AS degree at PBSC’s Palm Beach Gardens campus. The Engineering Technology AS degree articulates to PBSC’s Bachelor of Applied Science degree in Information Management and/or Supervision and Management degree or to the Florida Atlantic University College of Engineering.

The three new CCCs, which are a brief 12 to 18 months in duration, share core and specialty courses that articulate to the proposed advanced manufacturing concentration of the Engineering Technology AS degree. Each CCC embeds multiple nationally recognized industry certifications, each of which appears on the 2017 Department of Education Career and Professional Education Act Postsecondary Industry Certification Funding List, within the curriculum, as listed in Table 2.

Table 2. Nationally Recognized Industry Certifications	
Certifying body	Certification/Credential
MSI - Manufacturing Skills Institute	Manufacturing Technician Level 1 Certification
ASQ - American Society for Quality	Certified Six Sigma Green Belt Testing is available to graduates once they have achieved 3 years of employment
MSSC – Manufacturing Skill Standards Council	Certified Production Technician
NIMS - National Institute for Metalworking Skills	Machining Level I – Measurement, Materials & Safety Machine Maintenance, Service and Repair Level II Preventive Maintenance Level II
ADDA - American Design Drafting Assn	Certified Drafter
Autodesk	Autodesk Certified Professional AutoCAD

The new CCCs will increase the number of entry and exit points along the college’s engineering pathways; increase the number of graduates holding nationally recognized credentials; and produce more highly trained, technically skilled workers for PBSC’s 90 Business Partnership Advisory Council members and South Florida’s employers.

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Recruitment and placement assistance will be provided by CareerSource Palm Beach County. Career Source will host career exploration and resume writing workshops; and job fairs in partnership with the Center. To increase persistence of CCC students through to the AS degree, students will be encouraged to participate in college-wide robotics and engineering student clubs, explore internship opportunities with the Business Partnership Advisory Council. The College will leverage existing faculty, staff, facilities and laboratories and use creative scheduling such as night and weekend courses to support the increased student enrollment.

Palm Beach County’s need for middle-skill workers has most recently been affirmed by the research published in the study entitled, “Palm Beach County Workforce Analysis, June 2018”, (underwritten by JPMorgan Chase & Co.). The study shows that more than 43% of all jobs in Palm Beach County are middle-skill jobs with an average wage in 2018 of \$18.00 per hour. The study’s findings feature recommendations that require PBSC to play a critical role; connecting Florida’s employers and their future employees, particularly for the 39,000 middle skill jobs expected in the County by 2023. The Florida Chamber Foundation’s recent study, Florida 2030, echoes the need for increased digital learning opportunities and targeted strategies to increase credentials and degrees among minority groups and low-income workers.

Table 3 lists the CCC, the corresponding CIP code and the length of program.

Table 3. Associate of Science Engineering Technology College Credit Certificates		
College Credit Certificate	CIP Code	Credit Hours
Industrial Technician (mechatronics)	615000013	30
Automation	615040601	12
Lean manufacturing	615061302	12

Based upon the recent “Palm Beach County Workforce Analysis, June 2018” (Boyette 2018), PBSC and its Business Partnership Advisory Council members, CareerSource Palm Beach County, and the Business Development Board of Palm Beach County, the Center of Excellence in Engineering Technology will strengthen the pipeline into the CCC’s and fortify the engineering pathways by:

- 1) creating multiple entry and exit points through three new College Credit Certificates with embedded industry recognized credentials that articulate along an engineering academic pathway.
- 2) engaging students in a robust, innovative curriculum that responds to industry needs and uses innovative, collaborative and multi-disciplinary approaches to teaching.
- 3) improving the retention and graduation rates of the Associate of Science Engineering Technology program through student engagement and academic advising.

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- 4) developing flexible course schedules across campuses to accommodate industry and student training needs.
- 5) engaging business community to provide student internships and ensure programs and curriculum respond to the evolving industry needs.

The Center will create a true, middle-skill ecosystem to strengthen collaboration between training and industry, increase workforce sustainability and better align training with industry needs. The Center will feature a new Engineering Laboratory wherein students will blend theoretical classroom knowledge with faculty-guided project-based laboratory learning. Math, engineering and physics (STEM) faculty will collaborate to create innovative multi-disciplinary teaching methods to teach the work-based technical skills employers need and prepare students for transfer to a baccalaureate degree. Students will learn to excel in the workplace by analyzing problems from multi-disciplinary perspectives, while STEM faculty across the college gain cross-disciplinary teaching skills. The advanced manufacturing pipeline will be expanded to include connections with the School District of Palm Beach County's Adult Education Centers such as West Technical Education Center (West Tech) in Belle Glade new Mechatronics program. PBSC and West Tech will collaborate to develop a matriculation agreement into the Advanced Manufacturing pathway and offer subject matter expertise support to its instructors.

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

All the proposed CCC training will be provided at PBSC's Palm Beach Gardens and Belle Glade campuses. Students who earn a CCC at the Belle Glade campus will matriculate towards the Engineering Technology AS degree at the Palm Beach Gardens campus. PBSC will leverage its existing multi-institutional articulation agreement with Florida Atlantic University's (FAU) College of Engineering; encouraging students to persist from the CCC programs, to the AS degree to FAU's College of Engineering or Palm Beach State College's BAS degrees in Information Management and/or Supervision and Management.

This project provides students opportunities to matriculate to FAU. Through the Florida's State University System's Targeted Educational Attainment (State TEAM) grant, PBSC and FAU faculty aligned engineering curriculum and developed flight plans for a seamless transfer of PBSC Associate of Arts graduates to FAU. The FAU and PBSC faculty currently participate in shared professional development workshops at FAU's laboratory to infuse project-based learning with PBSC and FAU students. The model project was sustained and enhanced through the Title III HSI STEM grant from the Department of Education. The Center will collaborate with Palm Beach State College's Bachelor of Applied Science Programs and FAU's College of Engineering

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administrators, faculty and students to participate in the Center’s comprehensive ecosystem of engineering activities.

The Center will serve as a model to support other state colleges in their development of engineering technology programs as well as expand the Center’s collaborative ecosystem with other statewide colleges to develop or strengthen statewide engineering programs. The Center Director will convene statewide meetings to disseminate the engineering academic pathways and share the multi-disciplinary curriculum resources and best practices for state colleges to replicate.

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

The proposed Center for Excellence in Engineering Technology addresses the needs of a broad array of employers from Palm Beach County’s industry sectors; *aviation/aerospace, manufacturing, clean tech, homeland security/defense, and other manufacturing such as the marine industry*, targeted for need by Enterprise Florida. The Florida Department of Economic Opportunity (2017) reports that there are more than 800 aviation/aerospace¹ employers and more than 8,500 manufacturing employers in the Palm Beach, Broward and Miami-Dade MSA². Together, they employ nearly 100,000 workers. Florida’s aerospace cluster has a total payroll of more than \$6 billion and the total payroll of the state’s manufacturing industry is more than \$19.5 billion³.

Because SOC codes aggregate occupations and job titles span NAICS codes, the three proposed CCCs will prepare students for work in more industries than are listed in Table 3. For example, 17% of Florida’s industrial machinery mechanics are employed in the commercial and industrial machinery equipment repair and maintenance industry; 5% in transportation and the remaining 78% work across all other industries. The aviation/aerospace industry dominates the employment of computer-controlled machine tool operators at 42% while 15% work in other machining industries and 43% across other sectors. Thirteen percent of Florida’s millwrights are employed with equipment contractors, 10% work in commercial construction, 9% in agriculture and the remaining 58% are employed across other industries. Twenty-one percent of machinists in Palm Beach County are employed in the aerospace manufacturing industry, 2% in the marine industry and 3% in commercial and industrial machinery and equipment repair and maintenance.

¹ Enterprise Florida, Aviation & Aerospace, The Future is Here, 2017.

² Florida Manufacturing Industry Profile, 2016 Edition, Florida Department of Economic Opportunity.

³ Bureau of Labor Statistics, 2015 QCEW Annual Averages

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This wide array of jobs, interconnected skills and multiple sectors underscores the importance of the Business Partnership Advisory Council involvement in program curriculum and design. To ensure that graduates are well prepared for the broad range of job demands and work environments, the Business Partnership Advisory Council will be instrumental in all aspects of the Center. They will provide continuous feedback of the CCC’s, AS Engineering Technology program concentrations and course curriculum. They will participate in job fairs, provide internships and jobs to the engineering student graduates. PBSC employs a collaborative and organic process of local planning and consensus building to develop the three CCC’s to ensure that they are meet the workforce needs of the Business Partnership Advisory Council to prepare as many workers as possible for the jobs in the targeted industry sectors. The CCC is the starting point along the engineering technology academic pathway which students earn multiple industry recognized credentials and college credits that transfer to Engineering Technology AS and on to the BAS degrees in Information Management and/or Supervision and Management degree program.

The partial list of NAICS codes listed in Table 4 represents employers across broad targeted industry sectors that require workers certified in the areas of the proposed CCCs.

Table 4. NAICS Codes that align to College Credit Certificates	
NAICS Code	Industry Description
221100	Electric power generation, transmission and distribution
221118	Other electric power generation
237130	Power and communication line and related structures
325510	Paint and Coating Manufacturing
326140	Polystyrene foam product manufacturing
326150	Urethane and Other Foam Product
333414	Heating Equipment (except Warm Air Furnaces) Manufacturing
333611	Turbine and Turbine Generator Set Units Manufacturing
333993	Packaging Machinery Manufacturing
334413	Semiconductor and Related Device Manufacturing
334511	Search, Detection, Navigation, Guidance, Aeronautical
334519	Other measuring and controlling device manufacturing
336411	Aircraft manufacturing
336412	Aircraft Engine and Engine Parts Manufacturing
336415	Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
423860	Transportation Equipment and Supplies
441228	Motorcycle, ATV and All Other Motor Vehicle Dealers
517110	Wired Telecommunications carriers

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518210	Data processing, hosting and related services
541330	Engineering Services
541511	Administrative management and general management
541618	Other management consulting services
541620	Environmental Consulting Services
541690	Other Scientific and Technical
541712	Research and development in Physical, engineering, and life sciences (except Biotechnology)
561210	Facilities support services
561320	Temporary Help Services
561499	All other business support services
562211	Hazardous Waste Treatment and Disposal
562910	Remediation Services
611519	Medical Technician Schools

D. Describe how this proposal supports a program that is offered to the public.

The proposed program will be made available and offered to the public in the same manner as all other PBSC programs. PBSC’s College Relations and Marketing Department develops a marketing strategy to promote all programs to the community. The College hosts informational sessions, college tours, job fairs, open houses such as, ‘College is Possible’, which targets high school students and their families as well as Family Fun day at Belle Glade campus. The CRM department will create and promote the project through social media. Additionally, registration requirements for the CCC’s will be identical to other similar programs, such as proof of high school graduation/GED, placement tests, tuition/financial aid requirements, on-line/in-person enrollment. The College’s career centers and career advisors, academic advisors and program advisors from the Department of Education TRIO, a federal outreach and student support service program designed to identify and provide services for individuals from disadvantaged backgrounds, first-generation college students, and individuals with disabilities to progress through the academic pipeline, will refer applicants pursuant to the college’s standing referral guidelines. Community partners including Achieve Palm Beach and Career Source Palm Beach County will promote the project at their job fairs and community wide events as well as refer applicants to the programs as appropriate. Graduates of these programs will be assisted with job placement through our career center office upon completion as are all PBSC students and graduates.

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

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The creation of the Center and the offering of the three new CCC's and the Advanced Manufacturing concentration in the established Engineering Technology AS degree are aligned with PBSC's mission and vision statements, as well as the College's new Strategic Plan, "Panther 2023". The program was approved by PBSC administration and the Business Partnership Advisory Council. The formalized approval process for new programs engages administration, faculty, Business Partnership Advisory Council guidance, Institutional Review and Evaluation, Florida Department of Education (FLDOE) curriculum requirements and external partners including CareerSource of Palm Beach County, the Business Development Board of Palm Beach County.

The curriculum for the three CCC's will be developed through the standardized, rigorous curriculum approval process through a curriculum committee, established by the College for all new programs, and must meet all FLDOE standards, benchmarks and learning outcomes set forth in the academic frameworks. This data-driven curriculum review process uses labor market information, industry profiles and all programs are required to align with nationally recognized industry standards and certifications and meet the Business Partnership Advisory Council's industry needs.

PBSC's Business Partnership Advisory Council members will work alongside faculty and administration to support the Center and the development of the three new CCC's by providing content matter expertise, curriculum development, providing internships, hiring graduates, and by referring incumbent workers to PBSC for "skills upgrades". For example, Parametric Solutions, a local aerospace company that manufactures turbine technology, has currently enrolled 43 of its existing employees in PBSC engineering technology programs for skills upgrades. The Business Partnership Advisory Council's role is to review, revise and enhance the curriculum content of courses, safeguard their fidelity to the State's academic frameworks for FLDOE and ensure that the coursework will teach students the skills employers need in the workplace. This collaboration between industry and education strengthens PBSC programs so that they exceed industry standards and ensures graduates are job ready for immediate employment upon completion.

As a part of the Center's comprehensive technology ecosystem the college-wide STEM and engineering technology faculty will work together with the Business Partnership Advisory Council to develop specific course curriculum for the CCCs, align each course with state frameworks, and ensure that skills and knowledge are highly relevant to engineering employers in South Florida.

F. Does this proposal support a program that will not exclude unemployed or underemployed individuals? Yes

The program does not exclude unemployed or underemployed individuals. In order to increase enrollment, retention and accelerate towards completion of unemployed or

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underemployed individuals, the project will hire a Program Grant Coordinator and Post-Secondary Advisor who will be responsible for the recruitment of unemployed and underemployed individuals as well as provide case management appreciative advising student support services designed to increase retention and accelerate their time to completion in the program. Additionally, as a partner of the College, Career Source of Palm Beach County will support the program by referring unemployed and underemployed individuals into the CCC's.

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.

Several recent studies have informed PBSC's determination that demand will sustain growth in the aviation/aerospace, manufacturing, and homeland security/defense sectors.

- A recent JPMorgan Chase-sponsored workforce study, "Palm Beach County Workforce Analysis" (Boyette 2018) reports that more than 39,000 new middle-skill jobs with an average hourly wage of \$18.00 are expected in Palm Beach County by 2023. The study indicates broad county-wide need for workers with soft skills as well as technical skills. Recommendations for developing the local workforce pipeline include a specific role for PBSC to prepare post-secondary students to fill the employer-identified gaps in the targeted industries. This demand reflects strong growth in the county since 2012 when the Palm Beach County Business Development Board's Manufacturing Task Force reported that 1185 manufacturing businesses in Palm Beach County employed 14,694⁴, demonstrating that manufacturing sector employment has nearly doubled for middle skilled workers
- In 2013, Palm Beach County initiated the "Glades Region Master Plan", a 2-year economic development and planning effort centered on the "Glades" region of South Florida, including Belle Glade, South Bay, Clewiston, Pahokee and Canal Point. Funded by the U.S. Department of Housing and Urban Development, the wide-ranging study involved representatives from local municipalities, the Palm Beach County School District (including West Tech, the county's secondary training provider) Palm Beach State College, Career Source of Palm Beach County, the Business Development Board, representatives from state, and local and federal human service and employment and training agencies. Key elements of the study include the development of a market overview, and an economic development analysis of market trends

⁴ *Palm Beach County Business, A Quarterly Economic Development Publication*, Winter, 2012, The Palm Beach County Business Development Board. p.4

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and emerging industries. Two of the Plan’s strategies focus on achieving long-term economic sustainability by developing a workforce that can respond to the needs of the increasingly automated agricultural sector, as well as the planned Glades Intermodal Logistics Center (ILC) and its collective industries.

- The Florida Chamber Foundation recently published its Florida:2030 report, a blueprint for Florida’s economic success. The Blueprint focuses on the inevitable disruption and transformation that will most certainly affect Florida’s markets in the coming years. Issues, including increasing reliance on technology, stress on our infrastructure, globalism, and drastic population shifts all point to the need for a workforce with skills in science, technology, engineering, and manufacturing. The report states that middle-skilled workers who do cognitive, non-routine work in a “gig” economy (employment in multiple, on-demand opportunities rather than a single employer) will be in high demand.

Palm Beach County is a major aviation/aerospace/engineering center with a cluster of 1,352 sector employers employing more than 17,000 workers. The county is home to several of the world’s largest aviation industry employers including Lockheed Martin Corporation, Aerojet Rocketdyne, and Pratt & Whitney⁵. The industry has a \$6.78 billion-dollar impact on the state⁶.

Three out of five subsectors in Florida’s aerospace industry (aircraft engine and engine parts manufacturing, aircraft manufacturing and other aircraft parts and auxiliary equipment manufacturing) account for 43% of the sector’s total employment.⁷ Annual wages in the aerospace subsector tend to be among the state’s highest, eclipsing all other industry wages in 2014 by 48 percent. PBSC’s Center for Excellence in Engineering Technology will target training for jobs in these subsectors; qualifying workers in 9 of the 10 top CCC/AS degree aerospace occupations. Projected growth in the sector is significant; aircraft structure, surfaces and systems assemblers and machinists are on track to add 267 jobs across the state by 2023⁸.

The Florida Department of Economic Opportunity’s most recent available data on the state’s manufacturing industry (June 2015) shows that Florida’s manufacturers accounted for 4.3% of all industrial employment with 342,930 jobs, up 11,754 from the prior year⁹. Average annual wage in the sector at \$53,500¹⁰, tends to be approximately 20% higher than all other industries. Palm Beach County’s manufacturing cluster, the third largest in the state with a total payroll of \$19

⁵ Enterprise Florida, Aviation & Aerospace, The Future is Here, 2017.

⁶ Bureau of Labor Statistics, 2015 QCEW annual averages, downloaded from: http://www.enterpriseflorida.com/wp-content/uploads/All_Industry_Wage_Data_Sheets.pdf

⁷ Reprinted from Florida Aviation & Aerospace Industry, 2016 Edition, Florida Department of Economic Opportunity, p.

⁸ Enterprise Florida, Aviation & Aerospace, The Future is Here, 2017

⁹ Florida Manufacturing Industry Profile, 2016 Edition, Florida Department of Economic Opportunity.

¹⁰ Enterprise Florida Wage Data Sheet, 2017

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billion¹¹, includes significant marine and biomedical components, as well as information technology. There are more than 20,900 manufacturing jobs in Palm Beach County. It is interesting to note that between 2016 and 2017, Florida’s Price, Waterhouse, Cooper ranking for aerospace manufacturing attractiveness¹² fell from second to seventh. The drop is attributed to talent constraints which may be exerting upward pressure on wages.

Florida’s defense and homeland security sector boasts 17,900 companies with 194,000 employees and is second in the nation for space and defense systems manufacturing¹³. Palm Beach County is home to a growing cluster of defense contractors, several of which overlap significantly with the aerospace/aviation and manufacturing sectors.

Table 5 below demonstrates the current and projected demand for selected manufacturing, electrical technology, and aviation/aerospace jobs for which the proposed Center for Excellence would prepare students.

Table 5. Job Demand in Palm Beach County						
SOC	SOC Occupational Titles	Median Hourly Earnings	2018 Jobs	2023 Jobs	2018 - 2023 Change	2018 – 2023 % Change
17-3012	Electrical and Electronics Drafters	\$29.61	99	106	7	7.07%
17-3021	Aerospace Engineering and Operations Technicians	\$34.99	18	23	5	27.78%
17-3023	Electrical and Electronics Engineering Technicians	\$31.59	258	276	18	6.98%
17-3026	Industrial Engineering Technicians	\$28.15	180	193	13	7.22%
17-3029	Engineering Technicians, Except Drafters, All Other	\$26.60	141	156	15	10.64%
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	\$29.59	2085	2232	147	7.05%
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	\$30.61	102	114	12	11.76%
49-3011	Aircraft Mechanics and Service Technicians	\$30.02	578	637	59	10.21%
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	\$26.19	63	70	7	11.11%
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	\$23.59	185	212	27	14.59%

¹¹ Ibid.

¹² “Aerospace manufacturing attractiveness rankings” Geographic Assessment for Aerospace Manufacturing Investment, August 2017. Price, Waterhouse & Coopers.

¹³ Primary data source: US Department of Labor, Bureau of Labor Statistics, QCEW

Attachment 1

51-2031	Engine and Other Machine Assemblers	\$26.03	17	22	5	29.41%
	Total	\$28.82	3726	4041	315	13%
Palm Beach County EMSI data (2018-2023)						

Currently, PBSC has a total of **427** students enrolled with 166 students in the existing advanced technology concentration of the engineering technology AS degree, 167 students in the existing electronics concentration of the engineering technology AS degree, and 124 in the existing alternative energy systems concentration of the engineering technology AS degree. By Spring 2020, PBSC expects an increase in enrollment of **500** students in our new CCC programs. PBSC anticipates more than 1,000 students enrolled in the new CCC and AS in Engineering Technology pipeline by 2020. Between the 2015/16 academic year and the 2017/18 academic year, 29 students graduated from the electrical power technology program; *eighty-seven percent* of whom have either gained employment in their field or continued their education at a university. The demand for highly skilled, credential engineers and technicians far exceed the supply and this ratio of completers to demand will not meet the industry demands for the well-trained workers necessary to fill the 315 projected new jobs between 2018 and 2023 represented in Table 5.

The *economic implications* of this unmet need are significant for Palm Beach County. The technology industry ranks 5th in the United States for number and value of unfilled jobs and 4th for the level of economic impact those vacancies have on the economy as a whole¹⁴. EMSI data show that among the region’s (Palm Beach, Broward, Miami-Dade MSA) 5,691 aviation/aerospace employers, job growth through 2027 is expected to outpace that of the nation by nearly 2 points, or 3,783 jobs. With an average local industry salary of \$92,708, these are among the best jobs in Palm Beach County.

However, the unspent wages of vacant jobs are not the only cost to our economy. Employers in our region’s aviation/aerospace cluster, including PBSC’s Business Partnership Advisory Council members, required \$361,961,808 of in-region purchases to operate their business, even while many jobs remain unfilled. The economic impact of a fully-staffed tech and engineering in Palm Beach County would be profound. These facts highlight the importance of adding the proposed CCCs that can accelerate movement through engineering technology pipeline and increasing the number of skilled workers available to fill these jobs.

2. Additional Information:

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

¹⁴ “How unfilled tech jobs impact the US economy. Florentine, S. (2017). Downloaded from: <https://www.cio.com/article/3175814/hiring/how-unfilled-tech-jobs-impact-the-u-s-economy.html>

Attachment 1

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

The proposed grant funding will be used to hire the Director of the Center, Coordinator and Post-Secondary Advisor to manage the operations of the Center. Full time faculty and instructional support specialist will develop and deliver course instruction for the College Credit Certificates. Two lab technicians will support the faculty and maintain the classroom laboratories. Students currently enrolled in the program will be hired as Student Tutors in the laboratory to support, mentor and tutor the incoming students. A classroom on each campus will be renovated and reallocated to create the training laboratories and house the equipment. Funding is requested for stipends to pay the STEM faculty and Engineering faculty to create multi-disciplinary courses that support the CCC’s and AS degree in Engineering Technology.

B. does the proposal align with Florida’s Targeted Industries?

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

Aviation/Aerospace, Manufacturing, Clean Tech, Homeland Security/Defense, and Other Manufacturing.

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

The broad array of employment pathways for the proposed CCC’s and Advanced Manufacturing concentration of the Engineering Technology AS degree is projected to be in high demand and appear on the Statewide Demand Occupational List and Workforce Region 21 (Palm Beach County) Demand Occupations List.

Table 6 shows several of the high skill/high wage occupations in demand for which the CCCs and AS degree will prepare workers.

Table 6. High Skill/High Wage Occupations in Demand			
Occupation	State Demand List	Regional Demand List	High Skill/High Wage
Aircraft Mechanics and Service Technicians	X	X	X
First Line Supervisor of Mechanics, Installers and Repairers	X	X	X
First Line Supervisors of Production and Operating Workers	X	X	X
Mechanical Engineers	X	X	X

Attachment 1

PBSC’s Business Partnership Advisory Council reports compelling information related to the high future demand for these occupations, and data supports their conclusions.

- 1) Employers express concern that in addition to a shortage of engineers and technologists in the pipeline, the impact of the upcoming retirement of an aging workforce looms large on the horizon. For example, approximately 20 percent of Lockheed Martin’s engineers are approaching retirement¹⁵. Sixty-two percent of Florida’s industrial machinery mechanics are 45 years old or more and 20% are 55 or older. Similarly, 63% of machinists are older than 45; 32% 55 or older. Fifty-nine percent of millwrights are older than 45 and fully 34% are older than 55 years old. At least 5% of the workforce in each of these occupations is 65 years old or older¹⁶.
- 2) Employers report that the rapidly changing technology used in the workplace causes the targeted occupations to be in a constant state of “skills upgrade”. They strive to find workers with the technical expertise and capacity in highly specialized occupations. The need for skills upgrades is nearly constant, even for incumbent workers.
- 3) While Florida has steadily added 343,000 private sector jobs over the past several years,¹⁷ businesses continue to struggle to find qualified candidates, particularly in STEM fields. Conversely, using the BLS estimated number of unemployed in June 2017, 31,580, as a proxy for supply, there has been consistent decline in potentially available workers for business to train.

These factors strongly point not only to a significant gap between the number and skill of credentialed engineers and technicians, it highlights the demand for stacked, credentialing of workers through flexible entry and exit points in guided pathways as proposed for this program.

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.

Training will be delivered in person, in the classroom using multi-disciplinary laboratory and project-based activities at the following two campuses.

¹⁵ “As workforce ages, industries struggle to prepare for wave of retirements.” Alcorn, J. & Tomassini, J., Sept., 2011. Downloaded from: https://www.washingtonpost.com/business/as-workforce-ages-industries-struggle-to-prepare-for-wave-of-retirements/2011/08/29/gIQARlvVwJ_story.html?utm_term=.42067256658c

¹⁶ Economic Modeling Specialists Q3 2017 Data Sets, August 2017

¹⁷ Florida Monthly Employment Report, FL Department of Economic Opportunity, August 2017

Attachment 1

Campus	College Credit Certificate	Location/Address
Belle Glade	Industrial Technician (Mechatronics) Automation	1977 College Drive, Belle Glade, FL 33430
Palm Beach Gardens	Industrial Technician (Mechatronics) Automation Lean Manufacturing	3160 PGA Boulevard, Palm Beach Gardens, FL 33410

E. Indicate the number of anticipated enrolled students and completers

Table 7 shows the annual enrollment and completers of the CCC's. PBSC anticipates enrolling **500** participants in the new CCC with a 95% completion rate of 475 completing and earning a college credit certificate with an industry credential. With the existing enrollment of 427 students in the Engineering Technology and Electrical Power Technology AS degrees with an additional 500 enrolled in new CCC's, PBSC anticipates more than **1,000** students will be enrolled in the new CCC's and AS in Engineering Technology programs at the Center by December 31, 2020. By the end of the project period, May 31, 2023, PBSC anticipates **1,900** students will enroll and complete in the new CCC's.

Table 7. Proposed Enrollment and Completers of College Credit Certificates		
Name of the CCC/Location	Enrolled Students Annually	Completers Annually
Industrial Technician (Mechatronics) Belle Glade	40	38
Automation Belle Glade	40	38
Industrial Technician (Mechatronics) Palm Beach Gardens	120	114
Automation Palm Beach Gardens	120	114
Lean Manufacturing Palm Beach Gardens	180	171
Total CCC's	500	475

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

Attachment 1

The project period is January 1, 2019 (Spring 2019 semester) to May 31, 2023 (Spring 2023 semester). Beginning January 1, 2019, (Spring 2019 semester), PBSC will develop the curriculum for the courses. By August 2019, (Fall 2019 semester) and January 2020, (Spring 2020 semester) the first and second cohort of students will enroll in the CCC courses. The third and fourth cohorts will begin their studies in Fall 2020 and Spring 2021. The fifth (final) cohort of mechatronics students, and sixth cohorts of automation and lean manufacturing students will begin in Fall 2021. In the spring of 2022 the sixth and final cohort of automation students will begin, and the seventh and final cohort of lean manufacturing students will begin their studies in the Fall of 2022. To accelerate time to completion of the CCC’s, the courses will be continuously offered each semester. Table 8 shows the location and the length of training for each CCC. Students will earn a CCC and an industry recognized credential in less than 18 months.

Table 8. Length of Program with Beginning and End Dates		
Name of the Program/Location	Length of Program	Beginning Date/End Date
Industrial Technician (Mechatronics) Belle Glade	4 semesters 30 Credits	Beginning: Fall 2019, Spring 2020, Fall 2020, Spring 2021 & Fall 2021 End: Spring 2021, Fall 2021, Spring 2022, Fall 2022, & Spring 2023
Industrial Technician (Mechatronics) Palm Beach Gardens	4 Semesters 30 Credits	Beginning: Fall 2019, Spring 2020, Fall 2020, Spring 2021 & Fall 2021 End: Spring 2020, Fall 2021, Spring 2022, Fall 2022, & Spring 2023
Automation Belle Glade	3 Semesters 12 Credits	Beginning: Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022. End: Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022 & Spring 2023
Automation Palm Beach Gardens	3 Semesters 12 Credits	Beginning: Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022. End: Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022 & Spring 2023
Lean Manufacturing Palm Beach Gardens	2 Semesters 12 Credits	Beginning: Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022 & Fall 2022. End: Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022 & Spring 2023

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

Attachment 1

The Center will become a prominent collaborative force among Palm Beach County's economic development sectors and the College commits to sustaining the Center. Several factors contribute to the sustainability of the proposed project, including deliberate planning achieved through a series of on-going regular meetings among the industry partners and business advisory council, a clear and common understanding of the multiple roles, and anticipated outcomes. Strong, time-tested relationships among all the partners have resulted in a truly transparent and durable collaborative partnership. The program responds to the identified needs of the business advisory council, and PBSC has demonstrated its ability to lead and manage significant projects including several long-term federally funded US Department of Education, National Science Foundation, and US Department of Labor grant programs.

The CCC programs feature Florida Department of Education standards and benchmarks set forth in established academic frameworks. PBSC's Business Partnership Advisory Council members support the sustainability of the programs by providing content matter expertise and hiring graduates. Their role is to review, revise and enhance the curriculum content of the courses developed by the faculty. Every three years, the Florida Department of Education conducts a review of program frameworks and solicits volunteers from the State College and their Business Partnership Advisory Council members to provide feedback and recommendations to revise the existing frameworks and create new programs.

A primary factor in the Center's sustainability will be its measures of success. The Center programs will be integrated into PBSC's Institutional Research and Effectiveness Department's existing outcome evaluation process. The Center Director will monitor quality metrics including:

1. The state FETPIP report, which tracks program completers one year after completion to determine their employment status.
2. Perkins Accountability Measures, which indicated student attainment of credential during the program's first year, program completion and retention.
3. Program Health Indicators measure student enrollment, completion and satisfaction.
4. Business Partnership Advisory Council feedback. Continuous meetings with the local employers and support for PBSC's quality improvement cycle of its programs.
5. Track employment. PBSC will sustain the Center by tracking the number of graduates employed in Palm Beach County.

PBSC will leverage existing facilities, classrooms and laboratories to house the Center and the new CCC's. PBSC will use creative scheduling that include evening and weekend classes and laboratories to support the anticipated increased student enrollment and retention. Following the second year of implementation, the programs will be sustained by tuition and fees generated by enrollment.

Attachment 1

The increased capacity will provide the opportunity for increased program enrollments, which will generate tuition and fee revenue. The additional certifications earned by students will be submitted for available state funded payments to institutions. The exceptionally high rate of job placement will contribute to the tax and economic base in Palm Beach County. The project funds will increase the capacity of the education partners to deliver the training and skills requisite to meet the needs of the target industry workforce.

The College Relations and Marketing Department and the Center Director will develop collateral material to support outreach and recruitment efforts. The Center Director will continue to conduct outreach, recruitment into PBSC’s engineering academic pathways through the School District of Palm Beach County high schools and technical centers and Career Source Palm Beach County. PBSC’s strong partnership with Career Source Palm Beach County will ensure that those receiving Career Source services are aware of the new three CCC’s and academic engineering pathways. Career Source will offer participants who qualify for Individual Training Account stipends to support the training costs. PBSC is committed to maintaining efforts to strengthen and expand its Business Partnership Advisory Council to ensure the programs remain relevant to industry partners. PBSC is committed to retaining the personnel and maintaining the equipment purchased with project funds beyond the performance period. The PBSC Foundation and PBSC’s Resource and Grant Development Office will continue their coordinated efforts to explore various funding sources to sustain and expand the project.

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

Program completers will earn a College Credit Certificate that leads to an Associate of Science Degree in Engineering Technology. Embedded into the curriculum of each program are multiple nationally recognized industry credentials. Table 9 depicts the College Credit Certificate, CIP Code, the credential earned, and industry credential aligned for each program:

Table 9. College Credit Certificate Credentials			
College Credit Certificate	CIP Code	Credential Earned	Industry Credential
Industrial Technician (Mechatronics)	615000013	College Credit Certificate 30 Credits	Manufacturing Skills Institute Manufacturing MSI Technician 1 (MT1) National Institute for Metalworking Skills (NIMS) Preventive Machine Maintenance, Level II

Attachment 1

			Manufacturing Skill Standards Council: Certified Production Technician (MSSC)
Automation	615040601	College Credit Certificate 12 Credits	Manufacturing Skills Institute (MSI) Manufacturing Technician 1 (MT1)
Lean Manufacturing	615061302	College Credit Certificate 12 Credits	American Society for Quality (ASQ) 012 Six Sigma Green Belt
Engineering Technology Support Specialist (ETSS) CCC and Rapid Prototyping Specialist (RPS) CCC and all AS tracks in Engineering Technology			American Design Drafting Assn. (ADDA) Certified Drafter Autodesk Certified Professional - AutoCAD

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

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

PBSC has a robust Business Partnership Advisory Council who support the creation of the Center, the CCC’s and the Advanced Manufacturing concentration of the Engineering Technology AS degree that support their industry sector. Many of the Business Partnership Advisory Council members listed below offer internships to students and hire them upon graduation from the Electrical Power Technology and Engineering Technology programs. Because they earn industry credentials along the pathway, some students leave behind their current jobs to work at the industry partners for higher pay, fringe benefits, more responsibility and for the opportunity to start their professional career.

A list of 90 members of Palm Beach State College’s Business Partnership Advisory Council for the Belle Glade and Palm Beach Gardens campuses is shown in Attachment B. These business partners support the expansion of the three CCCs and Advanced Manufacturing concentration of the Engineering Technology AS degree. They will be instrumental in developing curriculum to meet industry needs, developing internships and hiring graduates.

3. Program Budget

Attachment 1

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	\$665,560	
	Personnel	\$1,068,720	Includes Fringe Benefits
	Facilities	\$200,000	
	Tuition	\$0	
	Training Materials	\$10,000	
	Other	\$18,500	Please Specify: Computers for Staff, general office supplies, outreach materials, safety supplies for students.
	Indirect Cost (5%)	\$98,139	PBSC has an indirect cost rate of 37.60% with the Department of Health and Human Services.
	Total Project Costs	\$2,060,919	
B.	Other Workforce Training Project Grant Funding Sources:		Not Applicable
	City/County	\$ 0	
	Private Sources	\$ 0	
	Other (grants, etc.)	\$ 0	Please Specify:
	Total Amount Requested	\$2,060,919	

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.

The project timeline is from January 1, 2019 to May 31, 2023. The College funding request is for two years January 1, 2019 – December 31, 2021. The College requests a six-month implementation period to purchase and install the equipment, renovate classroom space, hire the

Attachment 1

Center’s personnel and faculty, develop the CCC curriculum and initiate the STEM and Engineering faculty collaborative curriculum development project.

Table 10 depicts the timeline and steps necessary to implement the project.

Table 10. The Center for Excellence in Engineering Technology Timeline (January 1, 2019 to December 31, 2023)	
Timeline	Activity
January 2019 to July 2019	Inform internal stakeholders and Business Partnership Advisory Council; Develop press releases, marketing and recruitment materials; Advertise and hire positions; Recruitment of first cohort into CCCs. Renovate the classroom space to prepare for the installation of equipment; Order and install equipment; Order supplies; Faculty develops CCC curriculum. STEM and Engineering faculty initiate curriculum projects.
August 2019 to December 2019 (Fall Semester)	First cohort of students enrolled in three CCCs on two campuses. Equipment is installed and fully operational. Recruitment of second cohort.
January 2020 to May 2020 (Spring Semester)	First cohort of students persist. Second cohort enrolls STEM and Engineering faculty continue to collaborate on curriculum project.
June 2020 to August 2020 (Summer Semester)	First and second cohorts persist in CCCs and third cohort enrolls for Fall 2020. STEM and Engineering faculty deliver instruction of the new curriculum in courses.
August 2020 to December 2020 (Fall Semester)	First cohort completes CCCs and continues towards AS in Engineering Technology; Second and third cohort persists. Continuous recruitment into CCCs. STEM and Engineering faculty collaboratively refine new curriculum and deliver new course instruction.
January 2021 to May 2021 (Spring Semester)	First cohort enrolls into AS Engineering Technology. Second cohort completes CCCs and continues towards AS in Engineering Technology. Third and fourth cohort persist. Continuous recruitment into CCCs for fifth cohort.
June 2020 to August 2021 (Summer Semester)	First and second cohort persists through AS Engineering Technology. Third and fourth persists in CCCs. Fifth cohort enrolls into CCC’s for Fall 2021. Continuous recruitment into CCCs for sixth cohort. STEM and Engineering Faculty refine curriculum.
August 2021 to December 2021 (Fall Semester)	First cohort completes AS Engineering Technology, Second and third cohort persists in AS Engineering Technology, and third cohort enrolls in AS Engineering

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	Technology. Fourth and fifth cohort persists. Sixth cohort enrolls into CCC's. Continuous recruitment into CCCs. STEM and Engineering Faculty deliver new curriculum.
Spring 2022	Second cohort completes AS Engineering Technology, Third, fourth, fifth and sixth cohorts persist.
Fall 2022	Third cohort completes AS Engineering Technology Fourth and fifth cohorts complete CCC's.
Spring 2023	Sixth cohort completes CCC.

Budget Narrative:

The budget narrative includes the hiring of personnel for the Center, faculty and laboratory and instructor specialists, renovation of classrooms space into training laboratories, training supplies, a 5% Indirect Cost rate and the purchase of equipment for the proposed three CCCs at the two campuses.

Center for Excellence in Engineering Technology Budget Narrative				
Budget Timeline: January 1, 2019 to December 31, 2021				
A.	Workforce Training Project Costs:			
		Year 1 1/1/19 – 12/31/2020	Year 2 1/1/20 – 12/31/2021	Total
	EQUIPMENT			
	Belle Glade Campus:			
	Mechatronics CCC & Automation CCC	\$415,560		\$415,560
	Palm Beach Gardens Campus:			
	Mechatronics CCC, Automation CCC	\$250,000		\$250,000
	► TOTAL EQUIPMENT	\$665,560		\$665,560
	PERSONNEL			
	Center Director at Palm Beach Gardens (100% FTE)	\$73,763	\$73,763	\$147,526
	Program Grant Coordinator at Palm Beach Gardens (100% FTE)	\$51,906	\$51,906	\$103,812
	Postsecondary Advisor at Palm Beach Gardens (100% FTE)	\$47,295	\$47,295	\$94,590
	Lab Specialists, (100% FTE) \$39,265 x 2 Lab Specialists, one per campus	\$78,529	\$78,529	\$157,058

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Associate Professor Full Time Faculty (2) one faculty member per campus @ \$52,076	\$104,152	\$104,152	\$208,304
Full Time Faculty and Adjunct Faculty course development 18 courses @ \$3,500/course	\$63,000	\$0	\$63,000
Faculty Stipends for collaborative curriculum projects \$3,500 @ 5 faculty members	\$17,500	\$17,500	\$35,000
Student Tutors (2) \$10.31/hour x 27.5 hours/week x 32 weeks. One tutor per campus.	\$18,146	\$18,146	\$36,292
► TOTAL PERSONNEL	\$454,291	\$391,291	\$845,582
Fringe Benefits are computed at current PBSC rates. PBSC offers a very specific benefits packages that varies slightly for each employee. The package includes: FICA/Medicare at 1.45%; Florida State Retirement contribution at 7.26%; health/medical insurance at \$538 per month; dental insurance at \$11.95 per month; life and accidental death and dismemberment insurance at 0.27 per \$1,000/month; and Employee Assistance Plan @ \$1.35 per month.			
Center Director at Palm Beach Gardens	\$19,580	\$19,580	\$39,160
Program Grant Coordinator at Palm Beach Gardens	\$15,996	\$15,996	\$31,992
Postsecondary Advisor at Palm Beach Gardens	\$15,227	\$15,227	\$30,454
Lab Specialist, Full-Time at 2 campuses	\$27,746	\$27,746	\$55,492
Associate Professor Full Time Faculty (2) one faculty member per campus	\$32,046	\$32,046	\$64,092
Full Time Faculty and Adjunct Faculty course development 18 courses @ \$3,500/course	\$914	\$0	\$914
Faculty Stipends for collaborative curriculum projects \$3,500 @ 5 faculty members	\$254	\$254	\$508
Student Tutors (2), one per campus	\$263	\$263	\$526
► TOTAL FRINGE BENEFITS	\$112,025	\$111,112	\$223,138
FACILITIES			
Classroom space renovation for Engineering Laboratory at Palm Beach Gardens	\$100,000	\$0	\$100,000
Classroom renovation for CCC's at Belle Glade	\$100,000	\$0	\$100,000
► TOTAL FACILITIES	\$200,000	\$0	\$200,000
TUITION			
	Not Applicable		
TRAINING MATERIALS			
Educational training materials and safety supplies for Engineering Laboratory at Palm Beach Gardens and Belle Glade campuses	\$5,000	\$5,000	\$10,000
► TOTAL TRAINING MATERIALS	\$5,000	\$5,000	\$10,000

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	OTHER			
	Desktop Computers for Center Director, Program Coordinator, Post-Secondary Advisor (Quantity of 3 @ \$1,500)	\$4,500	\$0	\$4,500
	General office consumable supplies	\$2,000	\$2,000	\$4,000
	Outreach materials, brochures, hand-outs for informational sessions	\$5,000	\$5,000	\$10,000
	► TOTAL OTHER	\$11,500	\$7,000	\$18,500
	TOTAL DIRECT COSTS	\$1,448,377	\$514,403	\$1,962,780
	INDIRECT COSTS (5%)	\$72,419	\$25,720	\$98,139
	TOTAL COSTS	\$1,520,796	\$540,123	\$2,060,919

Supplementary Documents

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2. Crossmatch
3. Everglades Equipment
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7. Niagara Bottling
8. Parametric Solutions, Inc.
9. Power Systems Manufacturing (1)
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11. Pratt & Whitney
12. Solar Tech Universal
13. Sugar Cane Growers Cooperative of Florida
14. SV Microwave
15. Tripp Electric Motors
16. Business Development Board of Palm Beach
County
17. Industry Participation Summary

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

A handwritten signature in cursive script that reads "Russell Moore".

Russell Moore

Senior Director of Operations

Belcan Engineering Group, LLC

To Whom It May Concern:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

Crossmatch in Palm Beach Gardens, FL supports the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

To support this project, I commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of the classes;

Working with faculty to review curriculum to be sure it aligns to employer needs;

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,



Jeff Parker

Senior Vice President of Engineering and Operations

Crossmatch



Everglades Equipment Group
138 Professional Way
Wellington, FL 33414
561-296-7296

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to create "The Center for Excellence in Engineering Technology". The new Center, to be located on the Palm Beach Gardens campus, will introduce three new 12 to 18-month long college credit certificates (CCC) that align to industry credentials; industrial technician (mechatronics), automation, and lean manufacturing, and a new concentration for an A.S. degree, advanced manufacturing.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in five of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and three CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to making a presentation about the world of work to one of your classes, working with your faculty to review curriculum to be sure it aligns to employer needs, and participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

Diana Padron

Human Resources Director

9-18-18

Florida Turbine Technologies, Inc.
1701 Military Trail, Suite 110
Jupiter, Florida 33458-7887
Tel: 561-427-6400, Fax: 561-427-6190
www.FTTCompanies.com



**FLORIDA TURBINE
TECHNOLOGIES, INC.**

September 7, 2018

Ava L. Parker, J.D. President
Palm Beach State College
4200 Congress Avenue
Lake Worth, Florida, 33461

Dear President Parker:

Florida Turbine Technologies, Inc. (FTT) is delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

- Attending and participating in bi-annual project steering committee meetings;
- Helping your students prepare for the job search by offering them at least 5 mock interviews;
- Making a presentation about the world of work to one of your classes;
- Working with your faculty to review curriculum to be sure it aligns to employer needs

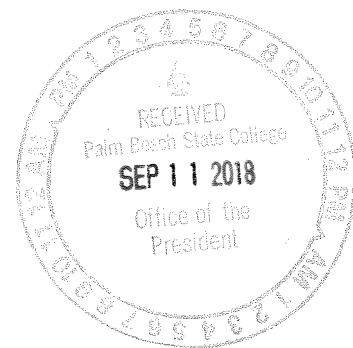
The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Sincerely,

A handwritten signature in black ink, appearing to read 'Shirley C. Brostmeyer', is written over a horizontal line.

Shirley C. Brostmeyer, CEO

Florida Turbine Technologies, Inc.



Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

- Attending and participating in bi-annual project steering committee meetings
- Helping your students prepare for the job search by offering mock interviews
- Working with your faculty to review curriculum to be sure it aligns to employer needs
- Participating in a hiring fair to fill potential needs within our workforce

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

Steve Pitts
Manufacturing Manager, Rotary and Mission Systems
Lockheed Martin Corporation
100 East 17th Street
Riviera Beach, FL 33404
O 561-471-4308 | M 561-758-6815
E steven.g.pitts@lmco.com



Curtis James
P.O. Box 109610
West Palm Beach, Florida 33410-9610
September 25, 2018

Ava L. Parker, J.D
President
Palm Beach State College

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

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Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs;

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Sincerely,



Curtis James
Sr Mgr, Flight Test Instrumentation
Lockheed Martin

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

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In order to support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

Adam Gilliam | Maintenance Manager | **NIAGARA BOTTLING** | 15832 Corporate Road North | Jupiter, FL 33478

USA | OFFICE 704.360.8570 | MOBILE 1-909-228-2744 | Email | agilliam@niagarawater.com



September 5, 2018

Dear President Parker:

I am pleased to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

To support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity to obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

M. Catherine H. Barre
President
Email: cat@psnet.com



9/6/18

Dear President Parker:

PSM is a Global Service provider to the Land Based Turbine Industry based in Jupiter Florida with approximately 375 employees. PSM is an active member of the Business Development Board and is active in supporting the growth of the local infrastructure in the Aerospace/Manufacturing sector.

As a Member of the PSM Executive staff I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires. In order to support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping the students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

A handwritten signature in black ink, appearing to read "C M Biondo". The signature is written in a cursive style with a large, sweeping flourish at the end.

Charles M Biondo
VP Workshop Operations



September 12, 2018

Dear President Parker,

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much.

Regards,

A handwritten signature in blue ink, appearing to read "Alex Hoffs". The signature is stylized and includes a flourish at the end.

Alexander Hoffs
President

President Ava Parker
Palm Beach State College
4200 Congress Avenue
Lake Worth, FL 33461

Friday, September 21, 2018

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

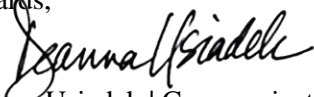
In order to support this project, we commit to:

- Attending and participating in bi-annual project steering committee meetings;
- Helping your students prepare for the job search by offering them at least 5 mock interviews;
- Making a presentation about the world of work to one of your classes;
- Working with your faculty to review curriculum to be sure it aligns to employer needs
- Participating in a hiring fair to hire your program graduates and
- Sharing what we do at Pratt & Whitney by offering tours of our company which develops, produces and tests various jet engines for commercial and military aviation customers.

The training programs PBSC plans to offer will provide enrollees with the opportunity to obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you for all that you do at Palm Beach State College to support the students in our local communities.

Regards,



Deanna Usiadek | Communications & Community Relations

Pratt & Whitney - West Palm Beach

Email: Deanna.Usiadek@pw.utc.com

Website: www.pratt-whitney.com

Office: 561.796.8511 | Mobile: 561.479.7683 | Fax: 860.755.4337



U.S. OWNED AND OPERATED SOLAR MODULE MANUFACTURER

9/7/18

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

- Attending and participating in bi-annual project steering committee meetings;
- Helping your students prepare for the job search by offering them at least 5 mock interviews;
- Making a presentation about the world of work to one of your classes;
- Working with your faculty to review curriculum to be sure it aligns to employer needs
- Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Thank you very much,

Sugar Cane Growers Cooperative of Florida

POST OFFICE BOX 666

BELLE GLADE, FLORIDA

33430-0666

September 12, 2014

President Ava Parker
Palm Beach State College
4200 Congress Avenue
Lake Worth, FL 33461

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to create "The Center for Excellence in Engineering Technology". The new Center, to be located on the Palm Beach Gardens campus, will introduce three new 12 to 18-month long college credit certificates (CCC) that align to industry credentials; industrial technician (mechatronics), automation, and lean manufacturing, and a new concentration for an A.S. degree, advanced manufacturing. The application includes a fully equipped mechatronics lab on the Belle Glade Campus.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in five of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and three CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity to obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Sincerely,


Brent Woodham

Vice President, Human Resources

September 5, 2018

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to train workers for high-skill/high-wage jobs here in Palm Beach and surrounding counties.

SV Microwave, Inc. supports the College's efforts to increase job growth and economic development by preparing a skilled workforce in six of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, life sciences, homeland security/defense, and other manufacturing.

If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and seven CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

Attending and participating in bi-annual project steering committee meetings;

Helping your students prepare for the job search by offering them at least 5 mock interviews;

Making a presentation about the world of work to one of your classes;

Working with your faculty to review curriculum to be sure it aligns to employer needs

Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

SV Microwave has supported PBSC in the past, particularly the Swiss Machining curriculum, and SV is proud to say we currently have six (6) PBSC graduates working in our world-class machining center in West Palm Beach.

Thank you very much,



Charles N. Brunelas
Director of Operations
561 840 1800 x177
Cell: 978 758 7326



September 12, 2018

President Ava Parker
Palm Beach State College
4200 Congress Avenue
Lake Worth, FL 33461

Dear President Parker:

I am delighted to provide this letter of support for Palm Beach State College's application to the Department of Economic Opportunity to create "The Center for Excellence in Engineering Technology". The new Center, to be located on the Palm Beach Gardens campus, will introduce three new 12 to 18-month long college credit certificates (CCC) that align to industry credentials; industrial technician (mechatronics), automation, and lean manufacturing, and a new concentration for an A.S. degree, advanced manufacturing. The application includes a fully equipped mechatronics lab on the Belle Glade Campus.

We support the College's efforts to increase job growth and economic development by preparing a skilled workforce in five of Enterprise Florida's targeted industry sectors: aviation/aerospace, manufacturing, clean tech, homeland security/defense, and other manufacturing.

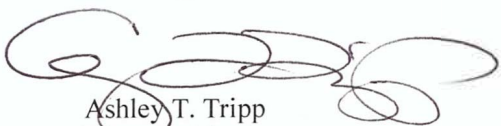
If awarded, Palm Beach State College would open a Center for Engineering Technology on its Palm Beach Gardens campus and create one new A.S. degree and three CCC programs in various high-skill/high-wage engineering disciplines, several of which our company hires.

In order to support this project, we commit to:

- Attending and participating in bi-annual project steering committee meetings;
- Helping your students prepare for the job search by offering them at least 5 mock interviews;
- Making a presentation about the world of work to one of your classes;
- Working with your faculty to review curriculum to be sure it aligns to employer needs
- Participating in a hiring fair to hire your program graduates.

The training programs PBSC plans to offer will provide enrollees with the opportunity obtain a credential that can lead them to high paying jobs with sustainable and steady employment, which we strongly support.

Sincerely,



Ashley T. Tripp
Vice president

Chairman's Council

Florida Power & Light Company
LRP Publications

Board of Advisor Members

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Bank of America
BB&T
CareerSource Palm Beach County
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GL Homes
GliddenSpina + Partners
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North Campus and Palms West Hospitals
Hedrick Brothers Construction
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StevenDouglas
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Verdex Construction
Weitz Company LLC
Wellington Regional Medical Center



September 24, 2018

The Honorable Rick Scott
Office of the Governor
400 South Monroe Street
Tallahassee, Florida 32399

Dear Governor Scott,

The Business Development Board of Palm Beach County (BDB) is pleased to provide its support of Palm Beach State College's application to the Florida Job Growth Grant Fund – Workforce Training Grant Proposal. As the County's official economic development organization, we understand the significant impact that robust training programs have on growing the targeted industries in our County which are in close alignment with those designated by Enterprise Florida. Palm Beach State College proposes to develop The Center for Excellence in Engineering Technology (The Center), a centralized training program which will be poised to meet the employer demands for trained skilled and credentialed workers within the industries of Aviation/Aerospace/Engineering, Manufacturing, Clean Technology, and Marine to name a few.

The Center will expand the College's Engineering Technology Associate of Science degree program by creating a new Advanced Manufacturing concentration and three College Credit Certificates in industrial technician, automation and lean manufacturing that align to industry credentials. The Center will feature a new Engineering Laboratory wherein students will blend theoretical classroom knowledge with project-based laboratory learning. An innovative multi-disciplinary teaching approach has been cited by business leaders as an essential tool to prepare our County's future workforce and we are pleased that Palm Beach State College is leading our County's efforts in this regard. Implementing programs that further develop the workforce talent in our community will not only enhance the classroom experience for students, but will also ensure that curricula taught within classrooms are in best alignment with the needs of employers.

Conversely, talent development is a top priority for Palm Beach County. Given the forecasted need for targeted industry workers within the aforementioned industries with new and advanced technical skills, the BDB is in full support of initiatives that provide students with a competitive workforce advantage. If there is anything the BDB can do to further demonstrate its support of Palm Beach State College's application to Florida Job Growth Grant Fund, please do not hesitate to reach out to me directly.

Sincerely,

Shereena Coleman, Vice President
Business Development Board of Palm Beach County

Industry Participation Palm Beach State College Center for Excellence in Engineering Technology

	Steering Committee Meetings	Mock Job Interviews	Presentation to class	Review Curriculum	Hiring Fair
Belcan Engineering Group	X	X	X	X	X
Crossmatch	X	X	X	X	X
Everglades Equipment Group			X	X	X
Florida Turbine Technologies	X	X	X	X	
Lockheed Martin	X	X	X	X	X
Lockheed Martin	X	X		X	X
Niagara Bottling	X	X	X	X	X
Parametric Solutions	X	X	X	X	X
Power Systems Manufacturing (PSM)	X	X	X	X	
Power Systems Manufacturing (PSM)	X	X	X	X	X
Pratt & Whitney	X	X	X	X	X
Solar Tech Universal	X	X	X	X	X
Sugar Cane Growers Cooperative of Florida	X	X	X	X	X
SV Microwave	X	X	X	X	X
Tripp Electric Motors	X	X	X	X	X

Members of Palm Beach State College's Business Partnership Advisory Council		
Aerojet Rocketdyne	Agilis Engineering	All Lake Electrical Contractors
Atlas Sign Industries	Belcan	BHI Energy
Blair's Electronics	Brightline/Siemens (All Aboard Florida)	Carpenter Electric
Carter Electric of Belle Glade	CC Controls	City of Palm Beach Gardens
Cyient	Environmental Technology Control	Everglades Farm Eqpt Co Inc
Florida Crystals	Florida Turbine Technologies	Florida Power and Light
Glade & Grove Supply Co Inc	Glades Gas Co	Glades Precooler Inc
Glades Truck Ice Inc	Hoerbriger Corporation	Honeywell Security Group
Hydraulic Supply Co	J & G Transport	Jay's Plumbing
Jim Hooks Welding & Truck Equipment	JMA Electric Inc	Kimley Horn
King Ranch Inc	Kirchman Oil Corp	Knight Corporation
Krieger Machine Company	Lake Welding Supplies Inc	Larry's Laundry
Lockheed Martin	Logus Microwave	M P Heavy Duty Truck Parts
McNeill Contracting Inc	Miami Sod Co	NAPA Auto Parts-Performance
New Hope Sugar Co-Op	Niagara Bottling	Okeechobee Center-Housing
Original Equipment Auto	Original Equipment Co	Orsenigo Farms Inc
Orsenigo Repair & Maintenance	Palm Beach County Co-Op Ext	Palm Beach Facilities Mgmt
Parametric Solutions	Performance Napa Corp	Power Systems Manufacturing
PowerWright Technology	Pratt & Whitney	PrimeTest Automation
Proveg	QC Data	Quality Telephone Service, Inc.
Ray's Heritage LLC	Renco Plumbing	Robbie Tire Co., Inc.
Roma Services, Inc.	Roth Farms	Royal's Furniture
Rusty's Portable Sand Blasting	SM Jones & Co, Inc.	Scosta Corp.
Scotlynn Sweet Pac Growers	Sem Chi Rice Products	Seminole Supply Co.
Sikorsky Aircraft	Solar Tech Universal	South Florida Water Management District
Star Farms	Stitchworks Plus	Sugar Cane Golf Club
Sugar Cane Growers Co-Op of Florida	Sugar Farms	SV Microwave
T & S Construction, Inc.	Tecomet, Inc.	Tire Service Plus

TKM Farms, Inc.	TRC Solutions	Tripp Electric Motors, Inc.
Tru-Flo Corp.	Water Utility Department of Palm Beach County	Zimmer Biomet