



**Florida Job Growth Grant Fund  
Workforce Training Grant Proposal**

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

**Entity Information**

Name of Entity: The School Board of Miami-Dade County

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

**Contact Information:**

Primary Contact Name: Mr. Ciro R. Hidalgo, George T. Baker Aviation

Title: Principal

Mailing Address: 3275 NW 42 Avenue  
Miami, FL 33142

Phone Number: 305-871-3143

Email: cirohidalgo@dadeschools.net

**Workforce Training Grant Eligibility**

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

Eligible entities must submit proposals that:

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

## 1. Program Requirements:

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

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

Flightline Avionics Inspection and Repair (FAIR) Certification Program at George T. Baker Aviation Technical College: The FAIR certification program enables +

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

Funding for the FAIR certification program will support and enhance the curriculum currently offered at George T. Baker Aviation Technical College. +

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

Students in any A&P program currently receive limited training on avionics. Through this FAIR certification program, students learn to identify, inspect, troubleshoot and repair avionics on actual aircraft. George T. Baker A&P +

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

Yes     No

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

This proposal would provide an add-on certification (FAIR certification) in alignment to the Aircraft Mechanics and Service Technicians curriculum framework. FAIR certification will be available to students enrolled at George T. +

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

Yes     No

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

In accordance with a 2017 presentation by Boeing, from 2016 through 2035, there will be 39,620 new airplane deliveries globally. In North America, 8,330 aircraft will be delivered, representing a 5.9 trillion dollar industry that requires approximately 610,000 technical personnel in the next 20 years. A recent search evidenced a need for Aircraft Maintenance Technicians (AMT) with over 304 current job openings in South Florida alone (Indeed.com) H

## 2. Additional Information:

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

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

Funds for this program will provide specialized tools, testing equipment, textbooks, and

- B. Does the proposal align with Florida's Targeted Industries? (View Florida's Targeted Industries here.)

Yes  No

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

If no, with which industries does the proposal align?

Aviation/Aerospace - Aviation: Maintenance, repair and overhaul of aircraft.

- 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 Occupation Lists here.)

Yes  No

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

If no, with which occupation does the proposal align?

493011 High Skill High Wage Aircraft Mechanics and Service Technicians

- 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 for this program will be delivered using multiple methods. There will be classroom instruction using technical manuals. There will be computer simulations of

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

This program will be offered to classes of 25 students for each of three semesters annually. The program includes 120 hours of training over a period of 10 weeks. With anticipated increased demand, the program will be expanded. It is estimated

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

Begin Date: 11/2018 End Date: 11/2028

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

Funding would provide the required tools, technical manuals, computer and specialized equipment for implementation of the FAIR certification program. Additional hourly personnel will be hired during the development and initial implementation of the program. It is anticipated that there will be high demand for this program, and those

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

This is an innovative program that would be categorized under the CIP 47.0607. Students will obtain training to enhance the Airframe and Powerplant certificate. Students who complete the additional training will receive Flightline Avionics Inspection



I. Does this project have a local match amount?

Yes  No

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

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

This proposal is unique in that the program is not offered anywhere in South Florida.  
The proposed training that will be implemented has been developed in response to

### 3. Program Budget

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

A. Workforce Training Project Costs:

Equipment	\$ 126,680.00		
Personnel	\$ 10,718.00		
Facilities	\$ 0.00		
Tuition	\$ 0.00		
Training Materials	\$ 1,500.00		
Other	\$ 0.00	Please Specify:	_____
<b>Total Project Costs</b>	<b>\$ 138,898.00</b>		


B. Other Workforce Training Project Funding Sources:

City/County	\$ _____		
Private Sources	\$ _____		
Other (grants, etc.)	\$ _____	Please Specify:	_____
<b>Total Other Funding</b>	<b>\$ _____</b>		

**Total Amount Requested** \$ 138,898.00

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

- C. Provide a detailed budget narrative, including the timing and steps necessary to obtain the funding, how equipment purchases will be associated with the training program, if applicable, and any other pertinent budget-related information.

The budget requested will be used to purchase avionics systems similar to those being used in the aviation/aerospace industry. Funds for this program will provide specialized tools, testing equipment, textbooks, and training materials so that students may conduct troubleshooting and repair of avionics systems on aircraft. Purchases will include avionics for two planes (Boeing 737 and MD-80S), tool kits, technical manuals, troubleshooting tools, testing kits, and supplies. This equipment is required to train A&P technicians on modern avionics, simulating an active flightline 

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#### 4. Approvals and Authority

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

The School Board of Miami-Dade County

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- 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.

The Miami-Dade County Public Schools Board Meeting dates are: August 9, ~~2017: September 6, 2017: October 11, 2017: November 15, 2017: and~~ \_\_\_\_\_

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

A special meeting must be requested five days prior to the requested meeting date. \_\_\_\_\_

- C. Attach evidence that the undersigned has all necessary authority to execute this proposal on behalf of the entity. This evidence may take a variety of forms, including but not limited to: a delegation of authority, citation to relevant laws or codes, policy documents, etc.



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

Name of Entity: The School Board of Miami-Dade County

Name and Title of Authorized Representative: Mr. Alberto M. Carvalho, Superintendent of Schools

Representative Signature: *Alberto M. Carvalho*

Signature Date: 8/7/17



# Miami-Dade County Public Schools

*giving our students the world*

Superintendent of Schools  
Alberto M. Carvalho

Miami-Dade County School Board  
Dr. Lawrence S. Feldman, Chair  
Dr. Marta Pérez, Vice Chair  
Dr. Dorothy Bendross-Mindingall  
Susie V. Castillo  
Dr. Steve Gallon III  
Perla Tabares Hantman  
Dr. Martin Karp  
Lubby Navarro  
Mari Tere Rojas

June 22, 2017

Ms. Martha K. Asbury  
Assistant Deputy Commissioner  
Division of Finance and Operations  
Florida Department of Education  
325 West Gaines Street  
Room 344, Turlington Building  
Tallahassee, Florida 32399-0400

Dear Ms. Asbury:

This letter is to confirm that Ms. Iraida R. Mendez-Cartaya, Associate Superintendent, Office of Intergovernmental Affairs, Grants Administration, and Community Engagement, is authorized to sign grant-related documents on my behalf.

If you have any questions or need further assistance, please contact Ms. Mendez-Cartaya at 305 995-1497 or [imendez@dadeschools.net](mailto:imendez@dadeschools.net).

Sincerely,

Alberto M. Carvalho  
Superintendent of Schools

AMC:mlp  
L1136

cc: Ms. Iraida R. Mendez-Cartaya  
Mr. Ron Y. Steiger



### Additional Narrative

The School Board of Miami-Dade County

Mr.  Hidalgo, George T. Baker Aviation Technical College

Principal

3275 NW 42 Avenue

Miami, FL 33142

305-871-3143

[cirohidalgo@dadeschools.net](mailto:cirohidalgo@dadeschools.net)

**1A.** Flightline Avionics Inspection and Repair (FAIR) Certification Program at George T. Baker Aviation Technical College: The FAIR certification program enables students who enroll in the Airframe and Powerplant (A&P) program to receive specialized training in the troubleshooting and repair of avionics systems on actual aircraft; simulating a flightline operation currently used by major airlines. Students will receive an add-on certification that will evidence industry specific training that is in high demand in the aviation/aerospace field. The FAIR training is not currently offered in South Florida and is being developed in response to input from industry leaders.

**1B.** Funding for the FAIR certification program will support and enhance the curriculum currently offered at George T. Baker Aviation Technical College. Aircraft Maintenance Technician (AMT) students will be provided with specialized training in the inspection, identification and repair of avionics systems. This is an extension to the entry level training that is currently in place in the A&P (Airframe and Powerplant) program. The proposed program would provide students with an add-on certification (FAIR certification) that is highly sought after in the aviation industry.

**1C.** Students in any A&P program currently receive limited training on avionics. Through this FAIR certification program, students learn to identify, inspect, troubleshoot and repair avionics on actual aircraft. George T. Baker A&P students would train on an MD80 and a Boeing 737 currently housed on site. Typically, these skills are only acquired through on-the job training and after several years of employment. The FAIR certification, developed in response to industry advisors and feedback from major airline operators, would provide training in skills that are highly sought after in the airline industry. Modern aircraft are becoming increasingly dependent on computer technology and avionics systems. FAIR certified students will have a head start in this arena, and will receive workforce skills and training that are applicable across the Aviation Maintenance industry. George T. Baker A&P graduates who have this certification will have attained real-world skills that are more marketable in the workplace.

**1E.** This proposal would provide an add-on certification (FAIR certification) in alignment to the Aircraft Mechanics and Service Technicians curriculum framework. FAIR certification will be available to students enrolled at George T. Baker Aviation Technical College, which is a Federal Aviation Regulation Part 147 approved curriculum.

**1G.** In accordance with a 2017 presentation by Boeing, from 2016 through 2035, there will be 39,620 new airplane deliveries globally. In North America, 8,330 aircraft will be delivered, representing a 5.9 trillion dollar industry that requires approximately 610,000 technical personnel in the next 20 years. A recent search evidenced a need for Aircraft Maintenance Technicians (AMT) with over 304 current job openings in South Florida alone (Indeed.com).

The average salary for an A&P licensed technician is \$61,000. However, over 60% of the current AMT population are over 55 and will be retiring within 10 years. This sector will see an exponential increase in job growth and the required skill-set must match the technology of the aircraft being manufactured and delivered.

Funding of this program will prepare Aircraft Maintenance Technicians with skills that are in high demand. George T. Baker Aviation Technical College will create a database of students who have earned FAIR certification and will track their employment to determine the impact of this additional certification on employment status and salary.

**2D.** Training for this program will be delivered using multiple methods. There will be classroom instruction using technical manuals. There will be computer simulations of aircraft avionics systems. Most importantly, there will be hands-on training on the avionics systems of transport category aircraft (Boeing 737 and MD-80S) currently housed at George T. Baker Aviation Technical College. This is the true innovative component of FAIR certification, as this training is not currently offered in South Florida and it expands on the limited FAA (Federal Aviation Administration) curriculum requirements. George T. Baker Aviation Technical College is uniquely positioned to provide FAIR certification due to its history of a successful aviation maintenance program and the equipment currently in inventory. It is the simulated flightline training (training on retired aircraft currently on the George T. Baker campus) that enhances the A&P training and improves students' employability.

**2E.** This program will be offered to classes of 25 students for each of three semesters annually. The program includes 120 hours of training over a period of 10 weeks. With anticipated increased demand, the program will be expanded. It is estimated that there will be a 90% completion rate of the FAIR certification.

**2G.** (pg. 4) Funding would provide the required tools, technical manuals, computer and specialized equipment for implementation of the FAIR certification program. Additional hourly personnel will be hired during the development and initial implementation of the program. It is anticipated that there will be high demand for this program, and those seeking certification will register for the course. Once the equipment is in place, the program will be sustained annually by a minimal student fee, as approved by the Florida Department of Education.

**2H.** This is an innovative program that would be categorized under the CIP 47.0607. Students will obtain training to enhance the Airframe and Powerplant certificate. Students who complete the additional training will receive Flightline Avionics Inspection and Repair (FAIR) certification.

**2J.** This proposal is unique in that the program is not offered anywhere in South Florida. The proposed training that will be implemented has been developed in response to requests from major employers in the aviation industry. There is a high demand for Aviation Maintenance Technicians with specialization in avionics. FAIR certification will provide students with these skills.

**3C.** The budget requested will be used to purchase avionics systems similar to those being used in the aviation/aerospace industry. Funds for this program will provide specialized tools, testing equipment, textbooks, and training materials so that students may conduct troubleshooting and repair of avionics systems on aircraft. Purchases will include avionics for two planes (Boeing 737 and MD-80S), tool kits, technical manuals, troubleshooting tools, testing kits, and supplies. This equipment is required to train A&P technicians on modern avionics, simulating an active flightline repair environment.

A minimal funding structure will provide experienced personnel who will assist in the initial development and implementation of the FAIR certification program. The partial personnel costs will cover the instruction of the specialized training. A majority of funding will purchase needed equipment which can be utilized throughout the life of the program. It is anticipated that after the initial equipment is purchased, the FAIR certification program will become self-sustaining.

Personnel- Salary \$9,000.00 plus fringes Retirement 8.58% FICA 6.20%, Medicare 1.45%  
WC/Lia/Unemployment 2.85% \$1,718, total Salary \$10,718; Equipment: Avionics Systems \$126,680;  
Training Materials: textbooks, specialized tools, testing equipment \$1,500; TOTAL \$138,898.

**4B. i.** The Miami-Dade County Public Schools Board Meeting dates are: August 9, 2017; September 6, 2017; October 11, 2017; November 15, 2017; and December 6, 2017.