



## 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: Inspired Technologies Inc.

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

Primary Contact Name: Zack Dunlap

Title: Director of Business Development

Mailing Address: 3058 Highland Oaks Terrace  
Tallahassee FL 32301

Phone Number: 850-228-6469

Email: zdunlap@inspired-tech.net

Secondary Contact Name: Craig Goodson

Title: Managing Partner/CEO

Phone Number: 850-402-3701

### 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.**  
Cellular and Wireless Communications Tower Technician Program aka Cellular University

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

In cooperation with Tallahassee Community College, Inspired Technologies would create the very first Cellular and Wireless Tower Technician program in Florida.

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

In the ever growing world of wireless communications, graduates of this program would be in high demand in every single vertical market related to wireless communications.

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

This program would allow for graduates to be trained in the latest technology in cellular and wireless fields including 4G LTE, 5G LTE, FirstNet, Microwave, AirFiber and many more

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

This program follows the national course curriculum established by the National Wireless Safety Association and the National Association of Tower Erectors

- 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 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.

The program plans to graduate 50 students a year, graduating from a 240 hour training course and upon completion being hired on at entry level positions starting at \$45k a year. This will allow for students to receive a high paying job in a very high demand technology field, with just a 6 month vocational training.

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**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.
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- 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?  
 Telecommunications
- 

- 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?  
 492022 HSHW Telecommunications Equipment Installers and Repairers
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- D.** Indicate how the training will be delivered (e.g., classroom-based, computer-based, other).  
 If in-person, identify the location(s) (e.g., city, campus, etc.) where the training will be available.  
 If computer-based, identify the targeted location(s) (e.g. city, county, statewide) where the training will be available.

Classroom and Lab Training (Test Tower Site), will be located at the Tallahassee Community College Wakulla Environmental Institute in Crawfordville Fl.

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

Class will run and anticipated 50 graduates a year

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

Begin Date: 1/2/19 End Date: 6/1/19

240 hour course, 2 semesters a year, 2 programs per semester

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

Inspired Technologies Inc. along with several other strategic partners, plan on directly hiring these students as full time employees, while they are attending the training for this course.

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- 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.

Telecommunications Tower Technician 1  
 Telecommunications Tower Technician 2

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- 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).

Inspired Technologies is donating \$25k and also the instructor to teach the course, valued at \$75k a year

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

**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**      \$1,200,000.00  
 Florida Job Growth Grant Fund

2.) Other Workforce Training Project Funding Sources:

City/County                      \$ \_\_\_\_\_  
 Private Sources                 \$100,000.00 \_\_\_\_\_

Other (grants, etc.)             \$ \_\_\_\_\_  
 Total Other Funding            \$100,000.00 \_\_\_\_\_

Please Specify: \_\_\_\_\_

3.) Workforce Training Project Costs:

Equipment                        \$650,000.00 \_\_\_\_\_  
 Personnel                         \$75,000.00 \_\_\_\_\_  
 Facilities                         \$325,000.00 \_\_\_\_\_  
 Tuition                             \$ \_\_\_\_\_  
 Training Materials              \$150,000.00 \_\_\_\_\_

Other                                \$ \_\_\_\_\_  
**Total Project Costs**            \$1,200,000.00

Please Specify: \_\_\_\_\_

**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.

Please see attached documentation

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#### 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)?

Approval of Inspired Technologies Inc. CEO, Tallahassee Community College President

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

N/A

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- 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.

Please see attached documents

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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.

Inspired Technologies Inc.

Name of Entity: \_\_\_\_\_

Zack Dunlap

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

Representative Signature: \_\_\_\_\_

Signature Date: \_\_\_\_\_



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(PH) 850-402-3700

**Cellular and Wireless  
Communications Tower Technician Program  
aka Cellular University**

**Oct. -2018**

Inspired Technologies  
3058 Highland Oaks Terrace, Tallahassee FL, 32301



Inspired Technologies  
Cellular and Wireless Communications Tower Technician Program

In the ever growing and expanding world of wireless technology, employers are faced with an almost universal challenge... finding a qualified and ideal employee.

The solution – stop trying to “find” talent and start “growing” talent.

Inspired Technologies in cooperation with Career Source Capital Region and Tallahassee Community College are proud to introduce Cellular University (Cellular and Wireless Communications Tower Technician Program). The first ever of its kind in the Southeast.

Our goal is to provide adults with the ability to start in entry level positions with the ability to advance further in their careers, without taking on massive debt. Employers are looking for individuals who not only have the necessary qualifications/certifications, but also have hands on experience. Until now, most technology companies would only entertain potential employees who has experience in the field, but as we have seen, this standard is not sustainable nor is it practical.

Cellular University changes this mindset and gives people the opportunity to have a high paying career and skill sets that will benefit them for life. Not only are we giving people the chance for a better life, but we are engaging with them at a critical point in their lives. Often these individuals possess the aptitude and attitude to succeed, but aren't given the chance, whether that is a lack of money to pay for school or the lack of hope in a better future. To break this cycle, we must provide people with a hand up and not just a hand out.

Through private and public partnerships, we can make a difference in our communities by showing people that they have options, and clear paths to success.

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## Course Synopsis

This course offers a complete complement of safety and technical modules designed to prepare each student for an entry-level position in the wind, communication tower and many other industrial focused industries. Emphasis will be placed on working safely in all aspects of the technician job and the basic technical skills required when working with electricity and hydraulics. Throughout the course students apply their knowledge during verbal reviews, quizzes, hands-on lab practical evaluation sessions, and written exams.

This course assumes little to no previous experience. Background in basic electrical and mechanical concepts is not a requirement but will contribute to learning.

The cost for this course is \$3150.00.

## Course Organization

Class hours are 8:00 – 5:00, Monday through Friday with 1 hour scheduled for a lunch break.

This is a lecture and lab course consisting of 240 hours in which lesson topics are presented by the instructor. Instructor ratio is 10 to 1 students in the classroom and 5 to 1 for the labs. Written quizzes are given for each lesson and hands-on lab sessions with practical evaluations using simulators or simulated equipment are completed during the metering, electrical, torque, signalperson, rigging capstan hoist, CADWELDING, and lines and antenna lessons.

Tower climbing exercises, conditioning, practice, and practical evaluations take place on an actual wind farm and on the school provided wind and telecom simulated towers.

Self-paced homework assignments with quizzes are also assigned throughout the course.

Written final exams are given at the end of each gate.

## Course Objective

Upon completion of all lessons, given written safety and technical exams and hands-on practical evaluations, the student will explain, describe, identify, and demonstrate how to safely troubleshoot, service, and maintain industrial equipment including, but not limited to, wind turbines and communication towers. Written exam pass criteria is 80% for safety and 70% for technical subjects. All practical evaluations are pass or fail.

Each lesson will present its own specific objective.

## Text and Required Supplies

1. Student text materials will be provided.
  2. Personal Protective Equipment (PPE) hard hat, safety glasses, climbing gear is provided while in class and will be provided
  3. Required dress (not provided):
    - Sturdy work/hiking boots (composite or steel toed preferred, but not required), steel or fiberglass shank, with a defined heel.
    - Cotton pants, cotton long sleeve shirts
    - Form fitting, durable work gloves (Examples: CLC Handyman, Mechanix Wear, Iron Clad)
    - Cold weather gear (Examples: Wind resistant lined work jackets, hooded sweatshirt, balaclava, insulated overalls or coveralls, natural fiber upper/lower "long johns")
    - Exposed metal jewelry such as watchbands, earrings, rings, piercings, metal stitching, metal framed glasses, or necklaces are not allowed while working with electrically energized equipment.
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Inspired Technologies  
Cellular Communications Tower Technician Program

**Essential Job Requirements:**

- Excellent physical conditioning and ability to lift 100 lbs.
  - Willingness to work outdoors in all weather conditions
  - Ability to learn and incorporate climbing and general work safety requirements
  - Desire to function as part of a 2-4-man crew
  - Ability to read, comprehend and carry out written and verbal instructions
  - Basic mechanical abilities with hand tools and simple power tools
  - Ability to work reliably under minimal supervision
  - Ability to adapt to customer technical standards and practices
  - Ability to pass a Pre-employment DOT Drug Screen and Physical, Driver's Record Check, Background Check, and an Employee Reference Check
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Cellular Communications Tower Technician Program

Course Outline:

Lesson Title	Objectives and Criteria
Course101	This lesson introduces the materials you will be using during your curriculum.
Introduction to Wind and Communication Tower Industries	At the end of this lesson, in a group verbal review, the student will be able to: <ul style="list-style-type: none"> <li>• Give a basic explanation of a wind turbine and a cell tower</li> <li>• Explain advantages of wind energy</li> <li>• Explain disadvantages of wind energy</li> <li>• Explain the types of employment opportunities within the industrial sectors.</li> </ul>
Resume/Cover Letter Workshop	Upon completion of this workshop, students will be able to demonstrate the skills to draft a new or revised resume that will effectively sell skills and experience to a future employer.
Interview Workshop	Upon completion of this workshop, given a mock interview in both a one on one and group interview environment, students will be able to: <ul style="list-style-type: none"> <li>• Demonstrate how to make the right first impression</li> <li>• Demonstrate how to handle difficult interview questions</li> <li>• Dress for interview success</li> <li>• Determine their personal interviewing style</li> <li>• Communicate effectively</li> <li>• Demonstrate how to effectively close the interview</li> <li>• Exhibit interview questioning skills</li> </ul>
<b>Phase 1</b>	
Safety in the Industries	At the end of this lesson, given a written quiz and using reference materials, the student will: <ul style="list-style-type: none"> <li>• Describe what and why an injury and illness prevention program is in place</li> <li>• Define employer responsibilities</li> <li>• Define employee responsibilities</li> <li>• Identify dangers found within the wind and communication tower industries</li> <li>• Describe common safety programs</li> </ul> <i>Written Quiz: 80% with remediation to 100%</i>
First Aid, CPR and AED  <i>American Red Cross AED- Adult, CPR-Adult, Standard First Aid cards (2 years)</i>	At the end of this American Red Cross program, given a written quiz using reference materials and a practical evaluation, students will: <ul style="list-style-type: none"> <li>• Define, recognize and demonstrate care for a variety of first aid emergencies, such as burns, cuts and scrapes, sudden illnesses, head, neck and back injuries, and heat and cold emergencies</li> <li>• Define and CPR and care for breathing and cardiac emergencies in adults</li> <li>• Explain and Demonstrate how to use automatic external defibrillators</li> </ul> <i>Written Quiz: 80% with remediation to 100%. Hands on Practical: Pass or Fail</i>
OSHA 10 Hour Construction lessons: <i>OSHA 10 Hour Construction Safety Card (no expiration)</i>	
1. Intro to OSHA	At the end of this lesson, given a written quiz and using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What OSHA is</li> <li>• What OSHA does</li> <li>• Hazards addressed in OSHA standards</li> <li>• Employee rights</li> </ul> <i>Per the OSHA and industry standard, all OSHA lesson tests are remediated to 100% In addition to the mandatory Intro to OSHA quiz, a post test is used to validate the learning for the remaining OSHA lessons.</i>
2. Fall Hazards	At the end of this lesson, using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What is a fall hazard?</li> <li>• Safe work habits to prevent injury</li> <li>• How to recognize fall hazards</li> <li>• At least three methods of fall protection available for protecting workers</li> <li>• What is PFAS?</li> </ul>

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Cellular Communications Tower Technician Program

Lesson Title	Objectives and Criteria
<b>Phase 1 continued</b>	
3. Electrical Hazards	At the end of this lesson, using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What an electrocution hazard is</li> <li>• Where electrocution hazards exist</li> <li>• Types of electrocution hazards</li> <li>• Methods to minimize or eliminate electrocution hazards</li> <li>• What PPE to use</li> </ul>
4. Struck By Hazards	At the end of this lesson, using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What a struck by hazard is</li> <li>• Where a struck by hazard may exist</li> <li>• Types of struck by hazards</li> <li>• Methods to minimize hazards</li> <li>• What PPE to use</li> </ul>
5. Caught In or Between Hazards	At the end of this lesson using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What is a caught-in or -between hazard?</li> <li>• Types of caught-in or -between hazards</li> <li>• Where these hazards may exist</li> <li>• Methods to minimize these hazards</li> <li>• PPE to use</li> </ul>
6. PPE	At the end of this lesson, using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What PPE is</li> <li>• Why PPE is used</li> <li>• Types of PPE to use</li> <li>• How to care for PPE</li> <li>• Required PPE in the industries</li> </ul>
7. Health Hazards in Construction and Hazardous Materials	At the end of this lesson, using reference materials, the student will accurately: <ul style="list-style-type: none"> <li>• Explain what "the right to know" is</li> <li>• List various types of PPE used to handle hazardous materials</li> <li>• Describe basic first aid requirements for exposure to hazardous materials</li> <li>• Describe what spills and leaks are</li> <li>• Define what labels and SDSs are and the importance of their use</li> <li>• Define LOTO (Lockout Tagout)</li> <li>• Define a Confined Space</li> <li>• Define two categories of respirators</li> </ul>
8. Materials Handling	At the end of this lesson, using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• What is material handling?</li> <li>• Material handling hazards</li> <li>• Proper lifting of materials</li> <li>• How to avoid material hazards</li> </ul>
9. Tools	At the end of this lesson, using reference materials, the student will accurately explain and describe: <ul style="list-style-type: none"> <li>• When to inspect tools</li> <li>• Appropriate types of PPE to use with tools</li> <li>• When to use guards</li> <li>• Proper storage of tools</li> <li>• Safe handling techniques for hand and power tools</li> </ul>
10. Excavations	At the end of this lesson, using reference materials, the student will be able to explain and describe: <ul style="list-style-type: none"> <li>• Excavation hazards and risks.</li> <li>• Proper protective systems.</li> <li>• Who inspects?</li> </ul>

Inspired Technologies  
Cellular Communications Tower Technician Program

Lesson Title	Objectives and Criteria
<b>Phase 1 continued</b>	
Signalperson  <i>ARI Signalperson certificate (5 years)</i>	Upon completion of this course, the student will be assessed on the ability to accurately: <ul style="list-style-type: none"> <li>• Identify basic crane terminology and definitions</li> <li>• Explain boom deflection, center of gravity, and how to compensate for it</li> <li>• Identify the hazards and safety concerns associated with overhead lifting</li> <li>• Recognize the applicable OSHA and ASME standards.</li> <li>• Demonstrate hand signals per ASME B30.5 and B30.3.</li> <li>• Demonstrate voice communication and recognize safety concerns when using them.</li> <li>• Explain the pre-lift planning process</li> </ul> <i>Final Exam: 80%. Practical Evaluation: Pass or Fail</i>
Level 1 Crane Rigging  <i>ARI Level 1 Rigging certificate (5 years)</i>	Upon completion of this course, using the rigging handbook, the student will be given a written and practical exam and be able to accurately: <ul style="list-style-type: none"> <li>• Define responsibilities and safety rules for rigging and hoisting loads</li> <li>• Accurately inspect, select, maintain, and reject rigging equipment and hardware</li> <li>• Identify rigging hardware and slings along with defining their limitations</li> <li>• Identify load ratings, safety factors, and stresses imposed by hoisting</li> <li>• Calculate material load weights</li> <li>• Identify capacities of rigging and attach the appropriate rigging with the correct hitch configuration</li> </ul> <i>Final Exam: 80%. Practical Evaluation: Pass or Fail</i>
<b>Phase 2</b>	
Authorized Climber and Rescue  <i>Authorized Climber and Rescue Certification (2 years)</i>	Upon completion of this lesson, given a written exam (80%) and a practical evaluation (pass or fail), the student will be able to accurately: <ul style="list-style-type: none"> <li>• Identify and/or define the health and safety governing body regulations for fall protection</li> <li>• Define your responsibilities and those of your employer</li> <li>• Define and identify the risks involved when working at heights on various tower structures</li> <li>• Define and demonstrate how to perform an inspection of Personal Fall Protection Equipment (PFPE)</li> <li>• Properly don and use a full body harness</li> <li>• Demonstrate the mechanics and performance of each piece of PFPE you are required to use on the job</li> <li>• Define common hazards for PFPE</li> <li>• Demonstrate how to properly tie and use knots</li> <li>• Demonstrate safe and proper climbing techniques on both wind and cell towers</li> <li>• Demonstrate safe and proper rescue techniques on various tower structures</li> </ul> <i>Final Exam: 80% Hands on Practical: Pass or Fail</i>
<b>Phase 3</b>	
Alternating Current Theory	At the end of this lesson, given a written quiz and the use of reference material, the student will be able to accurately: <ul style="list-style-type: none"> <li>• Explain the difference between AC and DC</li> <li>• Identify electronic component influence on AC circuits</li> <li>• Define the use of transformers</li> <li>• Describe generator and frequency converter/inverter basics</li> <li>• Explain three phase AC basics</li> <li>• Define electric motor basics</li> <li>• Define reactive power, impedance and power factor basics</li> </ul> <i>Written Quiz: 70% with remediation to 100%</i>
Direct Current Theory	At the end of this lesson, given a written quiz and using reference materials, the student will be able to accurately: <ul style="list-style-type: none"> <li>• Define Direct Current</li> <li>• Identify the basic components of a circuit</li> <li>• Identify the source and load</li> <li>• Define HVDC</li> </ul> <i>Written Quiz: 70% with remediation to 100%</i>

Inspired Technologies  
Cellular Communications Tower Technician Program

Lesson Title	Objectives and Criteria
<b>Phase 3 continued</b>	
Voltage Test Procedures 50 Volts or Higher  <i>Electrical Safety Certificate (upon completion of all electrical lessons) (3 years)</i>	At the end of this lesson, given a written quiz and using reference materials, the student will accurately: <ul style="list-style-type: none"> <li>• Define volts, amps, ohms</li> <li>• Explain the causes of high voltage Arc Flash</li> <li>• List the current thresholds that can harm the human body</li> <li>• List the types of Arc Flash PPE required to work on circuits of 50 volts or higher</li> <li>• List the types of burns associated with electrocution and arc flash</li> <li>• List the various safety electrical boundaries</li> <li>• Explain use of insulated electrical tools and how to identify them</li> </ul> <i>Written Quiz: 80% with remediation to 100%</i>
Electrical Measurement Safety	Upon completion of this lesson, given a written quiz and using reference material, the student will be able to: <ul style="list-style-type: none"> <li>• Describe the IEC 61010 category ratings and how they affect the end user</li> <li>• Demonstrate the ability to safely use and care for the metering equipment covered in this lesson</li> <li>• Describe the safety specifications for DMMs and testers</li> <li>• Demonstrate the ability to minimize and avoid electrical measurement hazards</li> </ul> <i>Written Quiz: 80% with remediation to 100%</i>
Multimeters	At the end of this lesson, given a written quiz using reference material and a hands on practical exam, the student will accurately define and demonstrate: <ul style="list-style-type: none"> <li>• Types of multimeters (analog and digital)</li> <li>• Basic multimeter safety</li> <li>• Basic multimeter functionality</li> <li>• Multimeter symbols and their meaning</li> <li>• Multimeter care and maintenance</li> <li>• Safe and accurate multimeter usage</li> </ul> <i>Written Quiz: 80% with remediation to 100%. Practical Evaluation: Pass or Fail</i>
Amp Clamps	At the end of this lesson, given a written quiz using reference material and a hands on practical exam, the student will accurately define and demonstrate: <ul style="list-style-type: none"> <li>• Define what an Amp Clamp is</li> <li>• Define the symbols on an Amp Clamp</li> <li>• Safe use of an Amp Clamp</li> </ul> <i>Written Quiz: 80% with remediation to 100%. Practical Evaluation: Pass or Fail</i>
Megohmmeters	At the end of this lesson, given a written quiz using reference material and a hands on practical exam, the student will accurately define and demonstrate: <ul style="list-style-type: none"> <li>• Basic Megger / Hipot safety</li> <li>• Megger usage</li> </ul> <i>Written Quiz: 80% with remediation to 100%. Practical Evaluation: Pass or Fail</i>
Infrared Testers	At the end of this lesson, given a written quiz and a hands on practical exam, the student will accurately define and demonstrate: <ul style="list-style-type: none"> <li>• Safe use of an Infrared (IR) tester</li> <li>• The features of an IR tester</li> <li>• The distance to spot ratio</li> <li>• Field of view</li> <li>• Emissivity</li> </ul> <i>Written Quiz: 80% with remediation to 100%</i>
Phase Rotation Meter	At the end of this lesson, given a written quiz and a hands on practical exam, the student will accurately define and demonstrate: <ul style="list-style-type: none"> <li>• What a Phase Rotation Meter is and what it does</li> <li>• The symbols on a Phase Rotation Meters</li> <li>• Safe use of the Phase Rotation Meter</li> </ul> <i>Written Quiz: 80% with remediation to 100%.</i>
Tic Tracers	Upon completion of this lesson, given a written quiz and hands on practical exam, the student will be able to accurately define and demonstrate: <ul style="list-style-type: none"> <li>• Tic Tracer functionality</li> <li>• Safe and accurate Tic Tracer usage</li> <li>• Hot Cold Hot procedure using a Tic Tracer</li> </ul> <i>Written Quiz: 80% with remediation to 100%</i>

Inspired Technologies  
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Lesson Title	Objectives and Criteria
<b>Phase 4</b>	
Electrical Systems, Components, and Schematics	<p>At the end of this lesson, given a written quiz, using your reference materials, the student will be able to accurately:</p> <ul style="list-style-type: none"> <li>• List the 2 common electrical schematic methods</li> <li>• Identify various schematic symbols and labeling</li> <li>• Identify potential energy sources on a schematic diagram</li> <li>• Identify the elements of: <ul style="list-style-type: none"> <li>• Safety-chain/loop,</li> <li>• Latching,</li> <li>• Lock-out</li> <li>• PLC to Motor-Control</li> <li>• Reversing sub-circuits</li> </ul> </li> <li>• Follow an electrical schematic diagram to trace a circuit from source to load</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%</i></p>
PLC Demo & SCADA Demo	Instructor will demonstrate the basic functions of the Programmable Logic Computer and the SCADA system.
Wind Turbine Virtual Tour	This interactive video will provide and identify the various parts and components on a wind turbine.
Drivetrain Gearboxes	<p>Upon completion of this lesson, given a written quiz and using reference materials, the student will be able to:</p> <ul style="list-style-type: none"> <li>• List the drive train components</li> <li>• Describe the function of the drive train components</li> <li>• Explain the gearbox functions</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%</i></p>
Yaw Systems	<p>Upon completion of this lesson, using reference materials, the student will be given a written quiz and be able to identify and describe:</p> <ul style="list-style-type: none"> <li>• Yaw purpose / operation</li> <li>• Wind tracking data and devices</li> <li>• Component descriptions</li> <li>• Cable untwist function</li> <li>• Yaw system control</li> <li>• Yaw system faults</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%</i></p>
Maintenance Practices	<p>Upon completion of this lesson, given a written quiz and using reference materials, the student will be able to:</p> <ul style="list-style-type: none"> <li>• Explain reasons, methods and importance of following maintenance procedures consistently</li> <li>• Explain hazards associated when performing maintenance procedures</li> <li>• Identify the consequences of not following proper maintenance procedures</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%</i></p>
Lab Volt Electrical Simulator Labs	<p>Upon completion of this lesson of instruction, using the hands on electrical trainer simulator, the student will be able to demonstrate how to accurately and safely:</p> <ul style="list-style-type: none"> <li>• Follow LOTO procedures</li> <li>• Perform pre-power up checks and follow all electrical safety precautions including Hot Cold Hot Checks</li> <li>• Follow the schematics to build, operate and troubleshoot motor control circuits</li> </ul> <p>Troubleshoot motor control circuits, components and devices to identify faults Practical Evaluation: Pass or Fail</p>
<b>Phase 5</b>	
Fasteners, Torque and Tension  <i>Fasteners, Torque and Tension Certificate</i>	<p>At the end of all lessons in this course of instruction, given a closed book written exam and a hands on practical evaluation, the student will be able to explain the basic dynamics of fasteners and demonstrate how to safely use hand-held and hydraulic torque and tension equipment.</p> <p><i>Written Quiz: 80% with remediation to 100%. Practical Evaluation: Pass or Fail</i></p>



Inspired Technologies  
Cellular Communications Tower Technician Program

Lesson Title	Objectives and Criteria
<b>Phase 5 continued</b>	
Basic Hydraulics	<p>Upon completion of this lesson, given a written quiz, the student will be able to:</p> <ul style="list-style-type: none"> <li>• Describe hydraulics and what they are used for</li> <li>• Read a hydraulic schematic</li> <li>• Explain a basic hydraulic system</li> <li>• Troubleshoot a hydraulic system</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%.</i></p>
<b>Phase 6</b>	
Cell Site Basics	<p>Upon completion of this lesson, given a written quiz and using reference material, the student will be able to accurately identify and/or define:</p> <ul style="list-style-type: none"> <li>• Different types of cell towers</li> <li>• Ground components and structures</li> <li>• Tower components and appurtenances</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%</i></p>
Radio Frequency Awareness	<p>Upon completion of this lesson of instruction, the student will be able to accurately:</p> <ul style="list-style-type: none"> <li>• Define Radio Frequency (RF).</li> <li>• Define what makes RF dangerous.</li> <li>• Explain how RF works.</li> <li>• Identify the hazards when working around RF.</li> <li>• Identify how to avoid RF hazards.</li> <li>• Recognize RF signage and their implication/s.</li> </ul> <p><i>Written Quiz: 80% with remediation to 100%</i></p>
Capstan Hoist <i>Capstan Hoist Certificate</i>	<p>Upon completion of this lesson, given a written quiz and a practical evaluation, using reference material as needed, the student will:</p> <p>Safely and accurately perform a lift using a capstan hoist</p> <p>Define a capstan hoist and its features</p> <p>Define anchorages, blocks, ropes, and how to use and inspect them</p> <p>Written Quiz: 70% with remediation to 100% Practical Evaluation: Pass or Fail</p>
Lines and Antennas	<p>Upon completion of this lesson, given a written quiz and a practical evaluation, using reference materials as needed, the student will be able to safely and accurately:</p> <ul style="list-style-type: none"> <li>• Hang and remove an antenna from a tower</li> <li>• Demonstrate rigging techniques</li> <li>• Determine and demonstrate color coding</li> <li>• Perform weatherproofing</li> <li>• Perform grounding for coax line</li> <li>• Define and explain line and antenna procedures</li> </ul> <p><i>Written Quiz: 70% with remediation to 100%. Practical Evaluation: Pass or Fail</i></p>
CADWELDING <i>CADWELD Certificate</i>	<p>Upon completion of this lesson, given a written quiz and a practical evaluation and using reference materials as needed, the student will:</p> <ul style="list-style-type: none"> <li>• Safely and accurately perform a CADWELD</li> <li>• Define the CADWELD process</li> <li>• Explain safety measures when using CADWELD</li> </ul> <p><i>Written Quiz: 80% with remediation to 100%. Practical Evaluation: Pass or Fail</i></p>

Cellular Communications Tower Technician Program

Lesson Title	Objectives and Criteria
<b>Homework Assignments Distributed Throughout the Course</b>	
Electrostatic Discharge (ESD)	Upon completion of this lesson, given a written quiz and using reference materials, the student will be able to: <ul style="list-style-type: none"> <li>• Define Electrostatic Discharge (ESD)</li> <li>• Identify how ESD damages electronic parts</li> <li>• Define correct handling procedures for ESD sensitive electronic parts</li> <li>• <i>Self-paced Student Workbook. Written Quiz: 70% with remediation to 100%</i></li> </ul>
SCADA and Data Analysis Homework  Phase 5	At the end of this lesson, given a written quiz and using reference materials, the student will be able to: <ul style="list-style-type: none"> <li>• Define what SCADA is and what it does</li> <li>• Describe information that SCADA produces</li> <li>• Explain the benefits of using SCADA</li> </ul> <i>Self-paced Student Workbook. Written Quiz: 70% with remediation to 100%</i>
Fiber Optics  Phase 5	Upon completion of this lesson, using reference materials, the student will be given a written quiz and be able to: <ul style="list-style-type: none"> <li>• Define fiber optics</li> <li>• Describe how information passes</li> <li>• Differentiate analog and digital</li> <li>• Demonstrate light loss measurement</li> <li>• Define basic components of a fiber optic system</li> <li>• Define how it works on a wind turbine</li> <li>• Define how it works on a cell tower</li> </ul> <i>Self-paced Student Workbook. Written Quiz: 70% with remediation to 100%</i>
Communication Tower Vocabulary  Phase 6	Upon completion of this lesson, the student will be able to accurately define or explain key telecom terms associated with the tower technician job. <i>Self-paced Student Workbook. Criteria: Written Quiz: 70% with remediation to 100%</i>

**Proposed Site Location**

Tallahassee Community College  
 Wakulla Environmental Institute  
 4057 Crawfordville Hwy, Crawfordville, FL 32327



Toll Free: 1 (844) CAREER1  
careersourcecapitalregion.com

**LETTER OF SUPPORT**

9/13/18

**RE: Cellular University (Wireless Communications Tower Technician Program)  
CareerSource Florida's Pathways to Prosperity**

To CareerSource Florida:

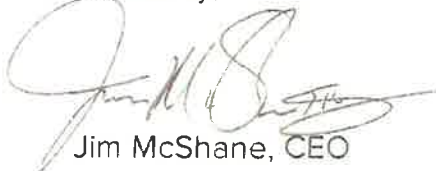
I am writing this letter of support for Inspired Technologies efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support Cellular University as we see its potential to not only support our organizations long term strategic goals, but also deliver highly skilled and high paying careers to our communities.

The demand for cell tower maintenance is growing and currently there is only one training provider nationwide in Arizona. This is a unique opportunity to put Tallahassee on the map in the cell tower/wind generator industry. The donation of the land to put up the tower by Tallahassee Community College shows a commitment to the potential of this high wage job with a two week training period.

CareerSource Capital Region (CSCR) is pleased to support this effort to set up a unique training program that will serve the entire United States. Inspired Technologies is a local leader in multiple aspects of the technology service industry and is aiming to grow their talent locally to grow the company.

Another aspect CSCR likes is this is a training and employment opportunity that can include the past incarcerated individuals. This will be super opportunity for those willing to climb a tower at 120Ft. The earnings will compensate for the risk.

Sincerely,



Jim McShane, CEO

**Administration/Executive Center**  
325 John Knox Road  
Atrium Building, Suite 102  
Tallahassee, FL 32303  
P: (850) 414-6085  
F: (850) 410-2595

**Gadsden County**  
Career Center  
1140 West Clark Street  
Quincy, FL 32351  
P: (850) 375-4040  
F: (850) 375-3324

**Leon County**  
Career Center  
2525 South Monroe St. Suite 3A  
Tallahassee, FL 32301  
P: (850) 922-0023  
F: (850) 921-8295

**Wakulla County**  
Career Center  
2932 Crawfordville Hwy  
Crawfordville, FL 32320  
P: (850) 926-0980  
F: (850) 926-0954





444 Appleyard Drive  
Tallahassee Florida 32304-2895  
850-201-6200 | [www.tcc.fl.edu](http://www.tcc.fl.edu)

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September 16, 2018

RE: Letter of Support

**Cellular University (Wireless Communications Tower Technician Program)**

To Whom It May Concern:

Tallahassee Community College (TCC) is extending its full support of the Cellular University grant application being put forward by Inspired Technologies. The application when funded, will support the creation of a workforce training program that offers an immediate career path into the wireless telecommunications technology sector. TCC is dedicated to offering in-demand training that leads to high-paying jobs for local residents and is therefore committed to creating the wireless communications tower technician program that will support a local and statewide emerging need.

In close, I would welcome any follow-up questions regarding our support. I can be reached at 850-201-6200 or at [murdaugj@tcc.fl.edu](mailto:murdaugj@tcc.fl.edu).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jim Murdaugh'.

Jim Murdaugh, PhD  
President, Tallahassee Community College

# DAVID F. HARVEY AND ASSOCIATES LLC

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September 14, 2018

To Whom It May Concern:

RE: Letter of Support

**Cellular University (Wireless Communications Tower Technician Program)**

I am writing this letter of support for Inspired Technologies efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support Cellular University as we see its potential to not only support our organizations long term strategic goals, but also deliver highly skilled and high paying careers to our communities.

Sincerely,



David F. Harvey

---

2931 Crawfordville Hwy. Crawfordville, Florida 32327

850-570-7424 DavidFHarvey.com david@davidfharvey.com



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A.J. DE MOYA  
Chairman-Elect  
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Secretary-Treasurer  
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District No. 3  
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TALLAHASSEE, FL 32301

TELEPHONE  
(850) 942-1404

FAX  
(850) 942-5632

WEBSITE  
[www.ftba.com](http://www.ftba.com)

September 17, 2018

RE: Letter of Support: *Cellular University (Wireless Communications Tower Technician Program)*

To Whom It May Concern:

I am writing this letter of support for Inspired Technologies efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support *Cellular University* as we see its potential to not only support our organizations long term strategic goals, but also deliver highly skilled and high paying careers to our communities.

Sincerely,

Robert G. Burleson  
President



September 13, 2018

RE: Letter of Support for Cellular University (Wireless Communications Tower Technician Program)

To Whom It May Concern,

I am writing this letter of support for Inspired Technologies efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support Cellular University as we see the potential to not only support our organizations long-term strategic goals, but also deliver highly skilled and high paying careers to our communities.

As our community continues to grow, our dependency on wireless communications is at an all-time high. Lively Tech is committed to building a workforce for our community and is excited to support Inspired Technologies and the Cellular University project as we work together to build a workforce to meet the ever growing needs of the wireless communications industry.

Sincerely,

A handwritten signature in cursive script that reads 'Shelly L. Bell'.

Shelly L. Bell  
Director  
Career, Technology and Adult Education  
Leon County Schools



**Jared F. Miller**, *Sheriff*

## WAKULLA COUNTY SHERIFF'S OFFICE

*Committed to Serving with Integrity, Respect and Fairness*

September 24, 2018


**RE: Letter of Support  
Cellular University (Wireless Communications Tower Technician Program)**

To Whom it May Concern:

This letter is in support for Inspired Technologies efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support Cellular University as we see its potential to not only support our organizations long term strategic goals, but also deliver highly skilled and high paying careers to our communities.

As Sheriff of Wakulla County, I see this as a great opportunity for our county and our citizens. If any additional information is needed, please feel free to contact me at: 850.754.7100.

Sincerely,

  
Jared F. Miller  
Sheriff, Wakulla County







PO Box 598, Crawfordville, FL 32326

September 24, 2018

Craig Goodson  
Inspired Technologies  
3058 Highland Oaks Terrace  
Tallahassee, FL 32301

RE: Letter of Support

**Cellular University (Wireless Communications Tower Technician Program)**

To whom it may concern:

The Wakulla County Economic Development Council enthusiastically supports Inspired Technologies' efforts to establish a workforce vocational training program at The Wakulla Environmental Institute. This program will create an immediate career path into wireless telecommunications technology for workers in our region. Because communication technology is changing so rapidly there is a severe shortage of qualified technicians and instruction facilities to create new technicians. We fully support Cellular University, now and in the future, as we see its potential to augment our organization's long - term strategic goals of delivering highly skilled and high paying careers to our families and our community.

Sincerely,

A handwritten signature in blue ink, appearing to read "John Shuff", is written over a faint, light blue circular stamp or watermark.

John Shuff

President, Wakulla EDC

*EDC Mission Statement: The Wakulla County EDC engages business, government and community partners to balance job growth and responsible economic expansion by sharing our community with the world.*

# WAKULLA COUNTY CHAMBER OF COMMERCE

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P. O. Box 598/23 High Drive, Crawfordville, FL 32326

Telephone: (850) 936-1848

September 19, 2018

Craig Goodson  
Inspired Technologies  
3058 Highland Oaks Terrace  
Tallahassee, FL 32301

RE: Letter of Support

**Cellular University (Wireless Communications Tower Technician Program)**

To whom it may concern:

Wakulla Chamber of Commerce sends this letter of support for Inspired Technologies' efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support Cellular University as we see its potential to not only support our organizations long term strategic goals, but also deliver highly skilled and high paying careers to our communities.

We look forward to seeing the progression of this program and how it will positively benefit the citizens of Wakulla County.

Sincerely,



Courtney Armitage, President



# WAKULLA COUNTY SCHOOL BOARD

69 ARRAN ROAD  
POST OFFICE BOX 100  
CRAWFORDVILLE, FLORIDA 32326  
TELEPHONE: (850)926-0065  
FAX: (850) 926-0123



Robert Pearce  
Superintendent

Verna Brock  
District I

Melisa Taylor  
District II

Becky Cook  
District III

Greg Thomas  
District IV

Jo Ann Daniels  
District V

September 18, 2018

Inspired Technologies of North Florida, Inc.  
3278 Crawfordville Highway  
Crawfordville, Florida 32322

RE: Letter of Support - **Cellular University (Wireless Communications Tower Technician Program)**

To Whom It May Concern:

I am writing this letter of support for Inspired Technologies efforts to establish a workforce vocational training program with an immediate career path into wireless telecommunications technology. It is our intention to fully support Cellular University as we see its potential to not only enhance our organizations long term goals, but to help deliver highly skilled and high paying careers and opportunities to our community members.

Of particular interest is the vision for students to meet qualifications for certifications in advanced informational technology programs that bring valuable, measurable rewards to their ability to secure a career. Informational technology knowledge provides credentials for entry-level, intermediate, specialist and experts in the field of wireless communications. It is with high regard I recommend this program.

Sincerely,

Robert Pearce, Superintendent  
Wakulla County Schools

RP/rss



September 24, 2018

**RE: Cellular University (Wireless Communications Tower Technician Program)**

To Whom It May Concern:

I am writing to express my highest regard for Inspired Technologies' application for funding to establish a vocational training program on wireless telecommunication technology. This program will create an immediate career path for students who choose to participate. As an economic development organization, Opportunity Florida is in full support of workforce training efforts for residents in our region. The Cellular University will not only support our long term strategic goals but will also help bring high skill / high pay careers to our region.

Opportunity Florida is a ten-county economic development organization that serves the Northwest Florida Rural Area of Opportunity. The efforts of Inspired Technologies to educate our workforce are directly in line with our efforts to increase the economic prosperity of our region.

Please feel free to contact me should you have any questions regarding this matter.

Best regards,

A handwritten signature in blue ink that reads "Richard Williams by Susan Estes".

Richard Williams  
Executive Director  
Opportunity Florida