### **AMRoC Fab Lab**

# Advanced Manufacturing & Robotics Center

A Social Enterprise Program of the Foundation for Community Driven Innovation AMRoCTampaBay.com



Presentation

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#### **AMRoC Mission**

The Tampa Bay Advanced Manufacturing & Robotics Center is a public Fab Lab dedicated to building capacity, empowering through opportunities for creative self-expression and bridging the manufacturing & industry talent gap through robust project-based engineering education and training.

### **Our Customers**











#### **How We're Different**



#### The Problem(s)

Nearly **5,000 manufacturers in Tampa Bay** employ **61,000 people** and contribute almost **\$9 billion to the local economy**. Local manufacturing is expected to **grow** by over **5%** through 2024 .

According to the 2016 Tampa Bay Manufacturing Gap Analysis, though, a lack of local talent with necessary skill sets to meet industry growth needs is poised to negatively impact our economy & communities.







Source: Adecco

### The Problem(s)

In the University area – zip code 33612

- > The poverty rate is 30.6%
- Median Household Income \$31,101
- Children living in households with Supplemental Security Income (SSI), cash public assistance

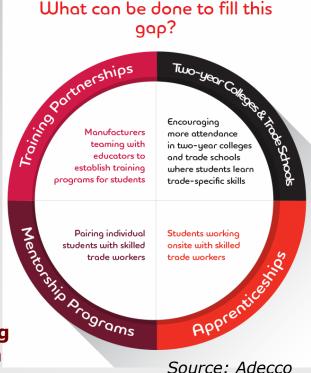
#### income, or Food Stamp/SNAP benefits -56.8%

Size of family unit		Related children under 18 years								
	Weighted average thresholds	None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual):	12,228									
Under age 65		12.486								
Aged 65 and older	11,511	11,511								
Two people:	15,569									
Householder under age 65	16,151	16,072	16,543							
Householder aged 65 and older	14,522	14,507	16,480							
Three people	19,105	18,774	19,318	19,337						
Four people	24,563	24,755	25,160	24,339	24,424					
Five people	29,111	29,854	30,288	29,360	28,643	28,205				
Six people	32,928	34,337	34,473	33,763	33,082	32,070	31,470			
Seven people	37,458	39,509	39,756	38,905	38,313	37,208	35,920	34,507		
Eight people	41,781	44,188	44,578	43,776	43,072	42,075	40,809	39,491	39,156	
Nine people or more	49,721	53,155	53,413	52,702	52,106	51,127	49,779	48,561	48,259	46,40

#### **The Solution: Create to Succeed**

AMRoC aims to be the vital K-to-Gray workforce pipeline closing that talent gap & empowering people in the process.

- US Auto Training
- > SolidWorks
- Autodesk
- > SOFWERX
- eSmart Recycling
- > USF
- Hillsborough County Library
- Hillsborough County Extension Service
- Automotive repairCertifications
- SolidWorks Certifications
- Tool & Machine training
- Robotics & Automation



- College & career pathways
- Partnerships with SPC& HCC
- Resource Guides
- Community engagement programs with academic partners

#### Work with

- > TechHire
- AMSkills
- > SPC &
- Local Businesses for job placement

#### **How This Helps Children & Families**

With respect to Children's Board of Hillsborough County service commitments, AMRoC Fab Lab fulfills two Children's Board service areas.



Empowered to Create!

#### Children are Ready to Learn and Succeed:

Our early learning STEM education programs are:

- Character based , focusing on Gracious Professionalism and Coopertition
- Delivered collaboratively with educators, mentors from the professional community, library staff and other youth education professionals
- Designed to foster team work and communication skills
- > Aimed at developing a culture of science and tech literacy and enjoyment.

Parents are also engaged through hands on experiential learning projects that they can take part in as well, creating an opportunity for families to learn together in fun and engaging ways.

#### **How This Helps Children & Families**

#### **Supported and Supportive Families:**

At AMRoC, family members ages 16+

- Can earn professional certifications in everything from CAD to automotive repair, providing improved workforce outcomes at higher level wages.
- Have opportunities for personal empowerment and improved selfreliance through our Repair Café, Family Handyman and related personal skill building programs.



Skilled to Succeed!

#### **Deliverables**



Families that Create Together Succeed Together

#### AMRoC Fab Lab seeks to deliver:

- STEAM-ready children from preschool to high school
- Technically literate, skilled and certified workforce and higher education ready high school students
- Personally empowered, critically thinking, self-reliant children and families
- Workforce-ready citizens finding placement in area manufacturing firms and businesses
- Inclusive and Accessible destination events and programs like competitive robotics events, special presentations, technical demonstrations, professional development and related conferences and program

### **Services for Sustainability**

- Rapid prototyping & digital fabrication
- Design consultation & support
- Small scale Machining
- Small scale manufacturing runs (<1000)</p>
- Open Device Lab for web & app developers
- Screen printing
- Certifications programs
- Professional Development programs
- STEM/DIY kit & electronics distributor/reseller

#### **How You Can Get Involved**

- Volunteer! Share your skills in programming, design, machining, prototyping and fabrication, textiles, handcrafts of all kinds from woodworking to metalsmithing, robotics, or mentoring, training or teaching experience, or providing facilities and equipment support and maintenance.
- ➤ In-Kind Support Donations of a variety of equipment, tools, and resources that align with our programming and are new or gently used and in good, safe, working condition are valuable contributions. Machine, tool and equipment companies interested in making donations or showroom loans to AMRoC , where we can showcase your equipment as teaching and training tools, in an environment where your clients can see your equipment in action, are also welcome.
- Membership A variety of affordable membership options, as well as open use opportunities are available.

#### **How You Can Really Get Involved**

Corporate Partnerships - Corporate partnerships are vital to the success and true economic impact AMRoC Fab Lab can effect. As a sponsor, you'll be listed on our Sponsor Showcase wall at the Fab Lab, in prominent view of Fab Lab users and guests, as well as on our website and media materials. You'll also have access to equipment and resources, and standing invitations to special events and programs.

AMRoC Sponsorship Levels Summa
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Sponsorship or Contribution Level :	AMRoC Ultimate Sponsor	AMRoC Diamond Sponsor	AMRoC Platinum Sponsor	AMRoC Gold Sponsor	AMRoC Silver Sponsor	AMRoC Bronze Sponsor	AMRoC Supporter	Friend Of AMRoC
Includes:	\$100K	\$75K	\$50K	\$25K	\$10K	\$5,000	\$2,500	\$1,000
Shop Area naming rights (e.g. Acme 3D Printing Lab)	✓							
Equipment naming rights (e.g. Acme multi-axis CNC)	✓	✓						
Special Invited Guest status at ROBOTICON	✓	✓	✓					
Company logo on The AMRoC Wall of Awesome	✓	✓	✓	✓				
Speaking opportunities at our public events	✓	✓	✓	✓				
Private training, testing or team building program	✓	✓	✓	✓	✓			
Company logo displayed at all AMRoC public events	✓	✓	✓	✓	✓	✓		
Linked Company logo on the AMRoC website	✓	✓	✓	✓	✓	✓		
Linked Company Name on the AMRoC website	✓	✓	✓	✓	✓	✓	✓	
Invitations to attend select members only events	✓	✓	✓	✓	✓	✓	✓	
Volunteer opportunities for employees	✓	✓	✓	✓	✓	✓	✓	✓
Recognition of support in annual report		✓	✓	✓	✓	✓	✓	✓ .

<sup>\*\*</sup> Sponsor Levels may also be commensurate with in-kind value of donated equipment

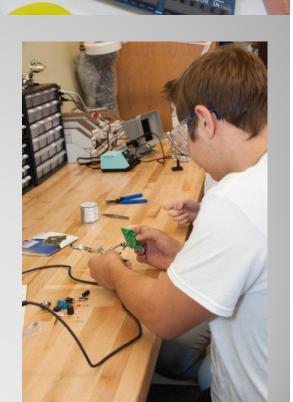
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#### A project of the nonprofit Foundation for Community Driven Innovation FFCDI.org







## **Questions?**

