



CHAMPIONSHIP

HOUSTON April 17-20 | DETROIT April 24-27 | 2019



Building a *FIRST* Community Center

Lessons Learned from AMRoC Fab Lab

Presented by Terri & Steve Willingham of the
Foundation for Community Driven Innovation with
Scott Ertz of *PLuGHiTz Live*



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About Foundation for Community Driven Innovation



The Foundation for Community Driven Innovation, **FCDI**, is a **501(c)(3) not-for-profit** organization dedicated to supporting academic achievement, economic development and the spirit of innovation through inspiring programs and active learning projects.

- FCDI is the founder and developer of the **Advanced Manufacturing & Robotics Center (AMRoC) Fab Lab**,
- FCDI produces **ROBOTICON Tampa Bay**, an annual youth STEAM Showcase event and
- FCDI produces **Gulf Coast MakerCon**, Tampa's original Maker Festival
- FCDI **facilitates fiscal sponsorship** of competitive STEAM (Science, Technology, Engineering, Manufacturing/Math) K-12 teams.
- FCDI is a **member of the Advanced Robotics for Manufacturing (ARM) Institute**, the Urban Manufacturing Alliance and the Fab Lab Hub.

Building a *FIRST* Community Center



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In this presentation, we'll share a road map that can help build a *FIRST* Community Center in your area

Developing
Awareness

Growing
Partnerships

Sourcing
Space

Social
Enterprise
Model

Developing
Meaningful
Programming



AMRoC
F A B • L A B

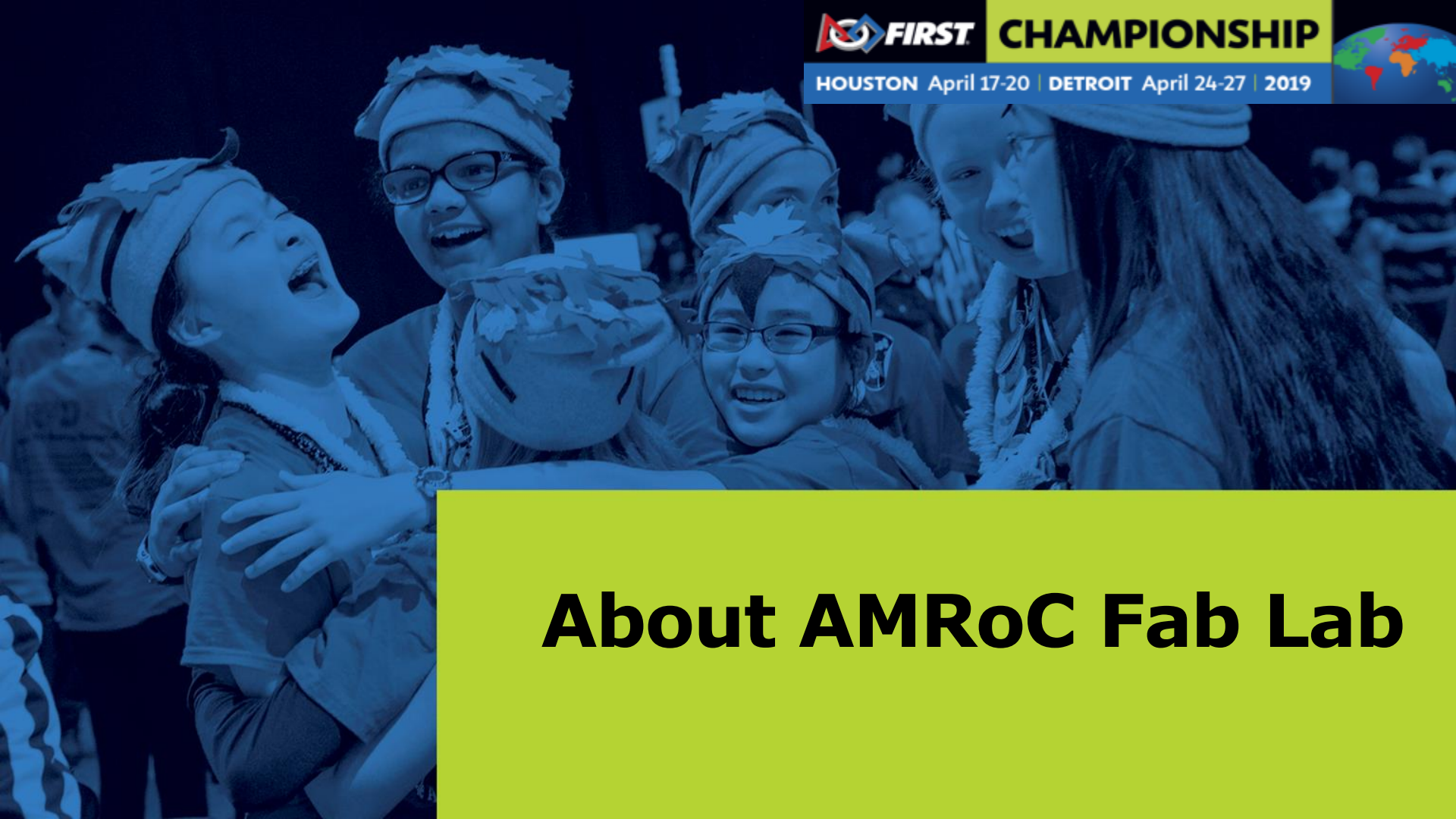
A Program of the Foundation for Community Driven Innovation - Building the Future Together

Foundation for Community Driven Innovation – Building the Future Together – FFCDI.org



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About AMRoC Fab Lab

Some Background



- Project inspired by success and community impact of ROBOTICON
- Seeded by \$30,000 Argosy Foundation Grant
- *FIRST* Robotics Competition field locally built
- 4-county search for suitable property
- Joined ARM Institute in 2017
- Mall property offered in September 2018
- Started build out in October, with “soft” programming underway since December
- Grand opening set for June 2019



Tampa Bay Advanced Manufacturing & Robotics Center Fab Lab



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AMROC Fab Lab is

- A social enterprise of FCDI
- Sustainable space providing K-to-Gray programming
- Anchored by a full scale *FIRST* Center



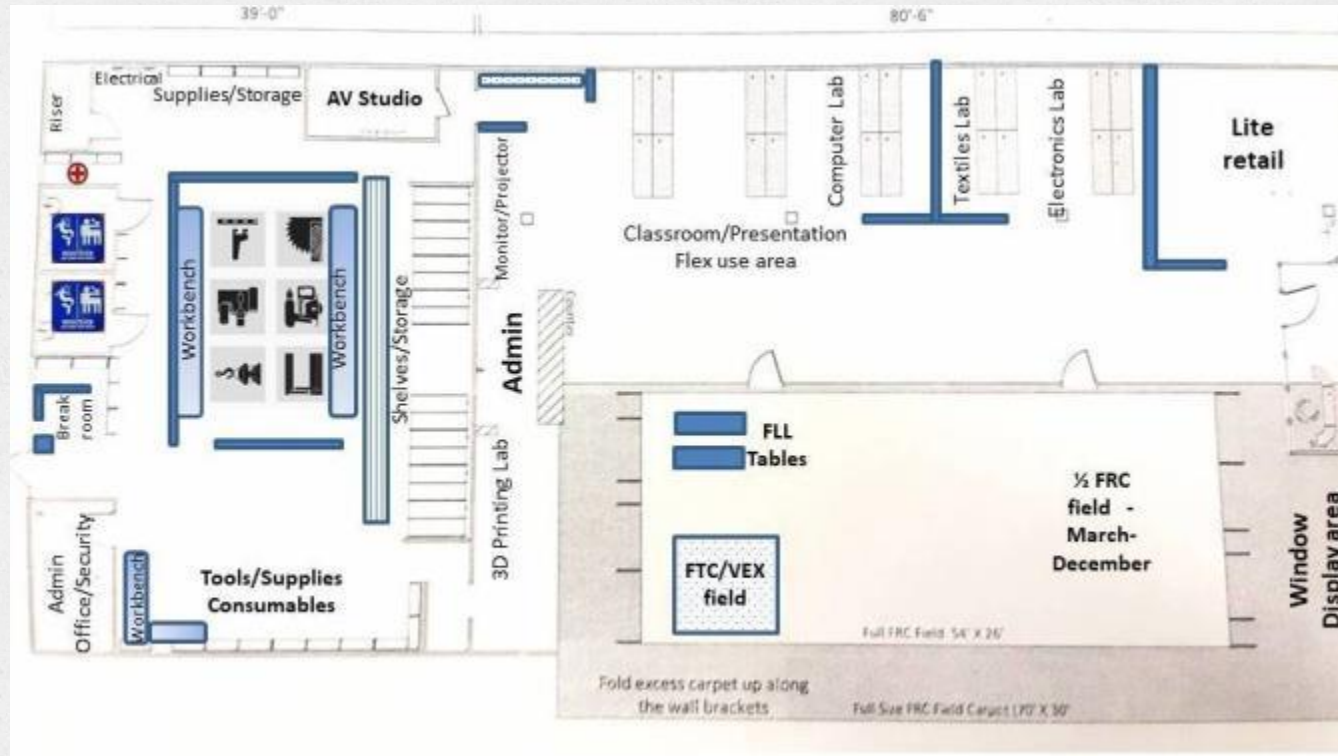
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Tampa Bay Advanced Manufacturing & Robotics Center Fab Lab

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AMRoC Specs

The Advanced Manufacturing & Robotics Center (AMRoC) Fab Lab features:

- 7500 sq. ft. of floor space – 4000+ sq.ft open storefront space + 3000 sq. ft. separate machine shop/storage space
- Work stations and seating for 40+
- Full scale *FIRST* Robotics Comp field
- *FIRST* Tech Challenge field
- *FIRST* LEGO League tables
- Resources for *FIRST* LEGO League Jr. programming
- *FIRST* gear for all programs
- 3D printers – standard and resin
- Drill Press
- Laser Cutter
- Panel saw
- Mini-lathe
- Hand-tools
- Electronics components
- Small power tools
- CAD/CAM computer stations
- Meeting & Presentation resources
- Planned: CNC machine, mill, band saw, A/V studio, Textiles lab

***FIRST* Center & More**

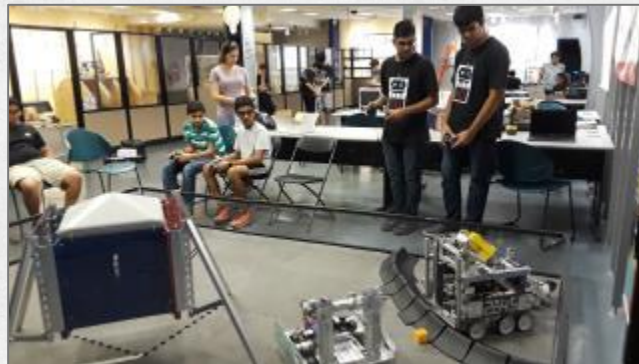
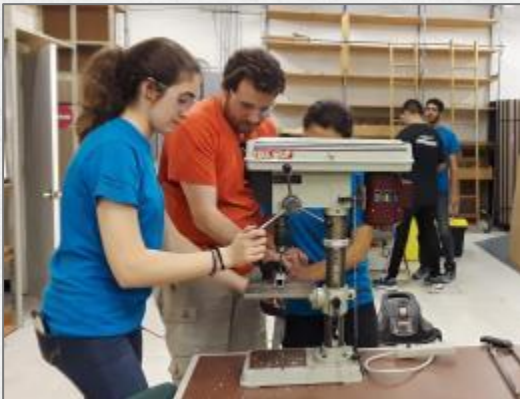


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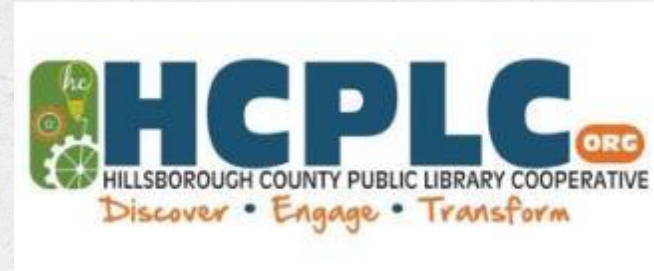


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Community & Program Partners



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**FIRST Tech Challenge
R.O.B.O.T. League**



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Community Pride

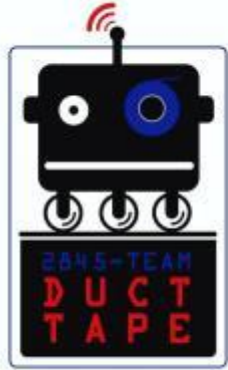


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TAMPA'S **UPTOWN** BRING YOUR ROBOT!



We can't think of any better ambassadors of Tampa's UPTOWN District to have representing us in Houston, than *FIRST* Tech Challenge Team Duct Tape, and the wonderful organizations, parents, families and friends that have supported them along the way. Their passion, aspirations and commitment represent the true nature of what the UPTOWN spirit and vision are all about. You have already won our hearts, now go have fun and pursue your dreams!



Christopher M. Bowen
Chief Development Strategist
RD Management LLC



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A blue-tinted photograph of four young students in traditional Native American costumes, including feathered headdresses and beaded necklaces. They are smiling and looking upwards, with one student in the foreground looking up with an open mouth. The background is dark and out of focus.

Planting the Seeds

ROBOTICON

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ROBOTICON Tampa Bay, is:

- Now in its 7th year
- K-12 STEAM education showcase,
 - featuring all four *FIRST* programs, and
 - academic, engineering and industry exhibits
 - weekend long celebration of science and technology
- Collaboratively produced with University of South Florida, in partnership with
 - Hillsborough County, FL;
 - community sponsors & Volunteers,
 - *FIRST* Alumni & Florida *FIRST* partners

Impact of ROBOTICON



- Grown from 30 teams participating to 60+
- Direct impact to area teams of over \$10,000 funding support annually
- Direct economic impact to the community over \$75,000 annually
- Made possible the development of and support for the Tampa Bay Advanced Manufacturing & Robotics Center (a permanent *FIRST* & STEAM education center)
- Raised public awareness about *FIRST* opportunities & value
- Launched new teams across all platforms
- Launched *FIRST* Looks podcast series by PLuGHiTz Corporation, an alumni run company
- 20+ companies now involved including some of Tampa Bay's largest corporations with new mentors & volunteers as well as funding support
- Has become a favorite recruitment event for USF meeting their goals for outreach and community engagement
- Created new opportunities for apprenticeships & internships for *FIRST* Alumni
- Featured as an event of note by Visit Tampa Bay & the Tampa Bay Sports Commission

Community Involvement



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FCDI also stays in the public eye by hosting, attending or helping with programs and events including:

- Monthly Economic Development meetups
- Coding events
- County agency fairs and events
- Innovation District events and programs

Telling the Impact Story



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FIRST Looks Robotics in Action



<https://patch.com/florida/seminoleheights/transformation-university-mall-urban-village-begin>

Prior to the start of the demolition work, the mall will host the **FIRST Robotics Competition scrimmage** for a dozen teams. About 100 youth will converge on the mall Saturday, Feb. 16 from 10 a.m. to 5 p.m. with their 120-pound robots to practice on Florida's only full-size FIRST Robotics Competition field.

The field is the first step in developing the **Tampa Bay Advanced Manufacturing & Robotics Center (AMRoC) Fab Lab** at the mall. A program of the **Foundation for Community-Driven Innovation**, the Fab Lab is slated to open this summer but will hold periodic events and programs while construction is taking place.

The Fab Lab is designed to be a sort of incubator for young people interested in project-based project-based engineering education and training. It will also serve as a Tampa Bay FIRST robotics hub, with resources for K-12 FIRST teams.

Image via RD Management

Tampa Bay Times

NEWS

SPORTS

OPINION

ARTS & ENTERTAINMENT

SPECIAL REPORTS

VIDEO

PHOTO

Q

It will provide opportunities for people of all ages to enjoy everything from personal skills development to earning professional certifications and develop needed workforce skills.

ADVERTISEMENT

The AMRoC FabLab will also serve as a FIRST youth robotics hub for Tampa Bay and Central Florida, with the only permanent FIRST Robotics Competition field in the state, along with a FIRST Tech Challenge field and FIRST LEGO League tables, resources and gear.

As part of the global FabLab community, AMRoC FabLab is committed to sharing an evolving inventory of core capabilities that will allow facility users the ability to make almost anything in a collaborative and welcoming environment.

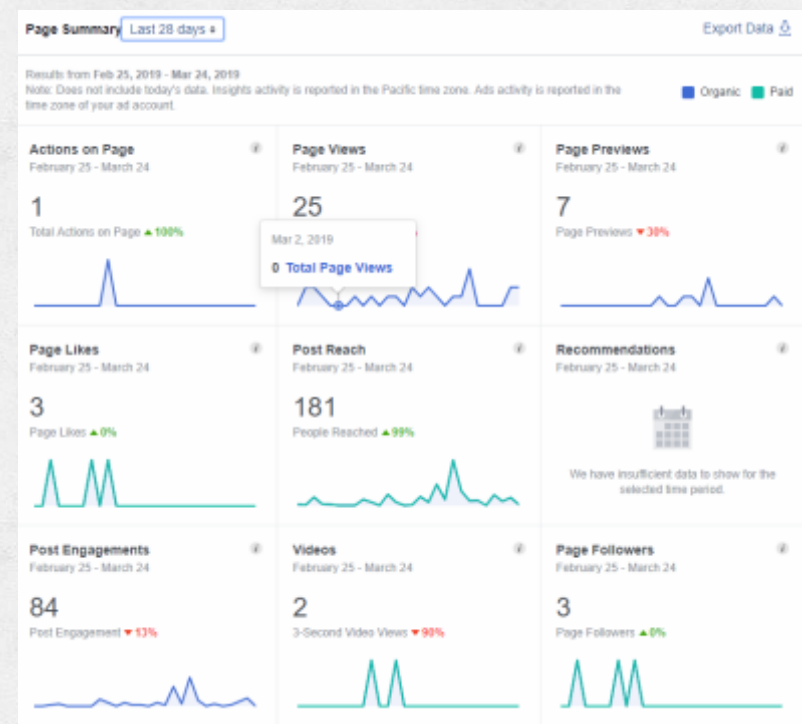
For more information, visit AMRoCTampaBay.com.

HR Statistics



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Active & Varied Social Media





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A blue-tinted photograph of a group of students in traditional costumes, including headbands with feathers and leis. They are smiling and looking upwards, with one student in the foreground looking up with an open mouth.

Sourcing Space

Inspiration for AMRoC

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Kettering University produces more inventors per graduate than all but three universities in the country, according to a recently released study profiled in *The Economist* examining how exposure to innovation influences inventiveness.

Having a multiuse permanent space:

- Helps existing teams meet, build & practice
- Improves sustainable access & inclusivity
- Grows teams
- Provides resources & support
- Raises awareness
- Recruits more sponsors & mentors
- Creates avenues for internships & jobs



Explore Every Option

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Useful Community Development

Search This Site:

Aspects Of Community Development:

- Beautification
- Code Enforcement
- Comm Dev Overview
- Community Organizations
- Crime Prevention
- Deed Restrictions
- Economic Development
- Housing
- Planning

Adaptive Reuse Re-Imagines Obsolete Buildings

Adaptive reuse of a vacant building is a smart community choice for sustainable development. If you aren't acquainted with this phrase, it describes finding a new purpose for a building rather its original use, or at least the one everyone remembers. A new land use that has more market demand is chosen and developed.

Re-purposing of buildings is a simple idea for community improvement, but one that has huge potential to reduce the carbon footprint and solid waste inherent in building demolition and new construction.

Museum of Our City Park, was transformed into an art museum.

Community & Economic Development

Community and Economic Development Programs

DFC's initiatives are focused on strategies to encourage safe and affordable housing, stabilize neighborhood housing markets, and encourage the productive reuse of vacant industrial land and buildings. These initiatives include:

- Detroit Neighborhood Housing Compact:** In partnership with the Urban Institute, DFC is organizing a cross-sector stakeholder group focused on strengthening the single-family housing market in Detroit neighborhoods, including both for-sale and for-rent market segments.
- Single-Family Rental Housing Study:** Working with the University of Michigan's Taubman College of Architecture and Urban Planning, DFC sponsored a study of single-family rental housing in two Detroit neighborhoods. The study developed recommendations for incorporating safe, affordable, single-family rental housing into an integrated strategy for neighborhood stabilization and revitalization.

Non-Profit Request to use County Real Estate

Residents | Businesses | Government | About Hillsborough County | [HISAY TO](#)

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Overview

Hillsborough County Board of County Commissioners' policy governs requests by nonprofit groups to use County real estate on a long-term basis (greater than 30 days). Factors affecting decisions to lease space to nonprofit agencies include substantial of a business plan, availability of space, finding a sponsoring County department, and the overall benefit the arrangement would bring to the residents of Hillsborough County.

How it Works

A nonprofit agency that wants to lease County-owned real estate should identify as a sponsor a County department or agency that would otherwise provide or benefit from the delivery of the nonprofit agency's services. The nonprofit agency and the Sponsoring Department must be able to demonstrate that the agency's services support a core County purpose and provide cost savings for the County in the delivery of services. The nonprofit will work through the

Center for COMMUNITY PROGRESS

Building a Future in which equity, abundance, and distributed prosperity are integral goals.

About | The Work We Do | Collaborators | Events | Published Items | Resources | Blog

Staff: Our Board, Board Members, Executive and Consulting Organizations

Learn More about Our Work: Our work and research. You are our difference.

About Us

Founded in 2014, the Center for Community Progress is the only national nonprofit specifically dedicated to building a future in which equity, abundance, and distributed prosperity are integral goals.

We are the leading building, impactful initiatives for urban, suburban, and rural communities working to address the full range of property challenges. We recognize the diverse impact issues that result, abundance, and distributed prosperity have on neighborhoods and the people living in them. Including economic, social, geographic, environmental, and other factors. We also recognize the legacy of racial bias, profit, and systems that cause some communities to have an unfair share of the burden.

for Public Use

PROPERTY UTILIZATION & DISPOSAL

Overview: The Disposal Process, Pending Federal Property, Certain Real Property Available for Federal Agencies, Surplus Real Property Available for Public Use

Federal real estate properties that are no longer needed by the federal government may be made available for public uses to state and local governments, regional agencies, or non-profit organizations.

Public uses for properties are those that are accessible to and can be shared by all members of a community, and include community centers, schools and colleges, parks, municipal buildings and many more.

GSA's Office of Property Disposal notifies state and local agencies of the availability of any surplus federal real property that they may be eligible to acquire under certain laws. These laws allow property to be transferred to public agencies and institutions at discounts up to 100 percent of fair market value for:

- Public health or educational uses
- Public Parks and Public Recreational Areas
- Public Libraries

Property Utilization and Disposal: publicinfo@gov, 202-506-1036

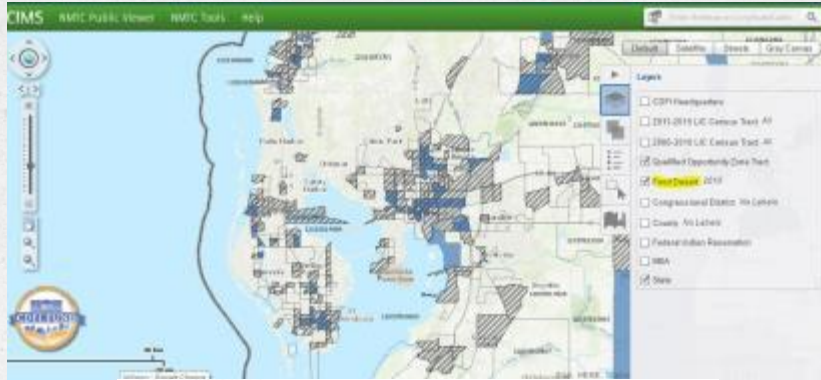
View Contact Details

Cornerstone Properties donates Sonoma County commercial space to nonprofits

It all at Sonoma County Supervisor Shireen Zane visited the Sonoma Peak Local Assistance Center where more than 12,000 people received help from dozens of agencies, social and nonprofit organizations.

COMMUNITY MEETING
THE SONOMA PEAK LOCAL ASSISTANCE CENTER, MAY 17, 2018

Opportunity Zones



An Opportunity Zone is an economically-distressed community where new investments may be eligible for preferential tax treatment.

More information - <https://bit.ly/2lh8m4a>

- Opportunity Zones have now been designated covering parts of all 50 states, DC, and five U.S. territories.
- Opportunity Zones are an economic development tool— they are designed to spur economic development and job creation in distressed communities. -

<https://www.cdfifund.gov/Pages/Opportunity-Zones.aspx>

Lat/Lon: 28.061142, -82.4360

Tampa, FL

	1 mi radius	3 mi radius	5 mi radius	7 mi radius
Race and Ethnicity				
Total Population (2018)	23,486	146,419	293,801	482,367
White (2018)	9,217 39.3%	80,382 54.9%	189,194 64.4%	274,814 57.0%
Black or African American (2018)	10,543 44.9%	46,262 31.6%	96,120 32.7%	127,741 26.5%
American Indian or Alaska Native (2018)	135 0.4%	681 0.4%	1,148 0.4%	1,718 0.4%
Asian (2018)	688 2.9%	6,078 4.1%	11,824 4.0%	18,823 3.9%
Hispanic or Latino (2018)	40 0.2%	136 0.1%	223 0.1%	287 0.1%
Other Race (2018)	1,965 8.4%	9,500 6.4%	16,190 5.5%	23,394 4.8%
Two or More Races (2018)	970 4.2%	5,536 3.7%	10,305 3.5%	15,870 3.3%
Population < 18 (2018)	6,130 26.1%	31,223 21.3%	62,438 21.2%	98,876 20.5%
White Not Hispanic	587 2.5%	6,470 4.4%	15,851 5.4%	25,826 5.3%
Black or African American	3,237 13.8%	12,686 8.6%	25,417 8.6%	34,888 7.2%
Asian	114 0.5%	1,000 0.7%	2,196 0.7%	3,597 0.7%
Other Race Not Hispanic	243 1.0%	1,384 0.9%	2,700 0.9%	4,546 0.9%
Hispanic	1,876 8.0%	9,721 6.6%	18,273 6.2%	31,686 6.6%
Not Hispanic or Latino Population (2018)	16,011 68.2%	106,776 73.0%	217,216 73.6%	326,060 67.4%
Not Hispanic White	4,989 31.2%	56,011 51.8%	116,302 53.5%	179,518 55.1%
Not Hispanic Black or African American	9,657 60.6%	40,587 38.4%	80,627 36.9%	118,066 36.2%
Not Hispanic American Indian or Alaska Native	88 0.5%	353 0.3%	676 0.3%	986 0.3%
Not Hispanic Asian	563 3.5%	5,046 4.7%	11,568 5.3%	17,845 5.5%
Not Hispanic Hispanic or Latino	41 0.2%	113 0.1%	173 0.1%	286 0.1%

Swing for the Fences

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Too Little...



...Too Big



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Just Right University Mall, Tampa

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Mall Magic



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1. Malls as lifestyle centers

The question of what happens next is an intriguing one. One popular idea is that the malls will evolve into lifestyle centers, offering a wider range of options for visitors than simply shopping, eating and movies.

"The mall is not dead, just changing. Give it a minute to get decent."

Marshal Cohen
Chief Industry Analyst, Retail, NPD Group

4. Malls as mixed-use spaces

Malls do not, of course, need to be only one thing. As retailers continue to explore options, there may be spaces that end up serving multiple purposes.

"There's 1,200 malls in America, and class B and C malls are about a third of the inventory," Glenn Brill, managing director at [FTI Consulting](#), a financial advisory corporation, told Retail Dive. "So there's a lot of retailers looking at their footprints, and there's stores closing. Having worked for a developer, I understand the dilemma. A mall is roughly 110 acres. It has power, water, a ring road, a huge parking lot. All that infrastructure has been built and permitted, and in place, so you have two scenarios. You can attempt to reuse the existing structures, or you can scrap them."



The secret to success, as identified by Vintage Real Estate and other retail investors, is to turn malls into retail destination hotspots with ease of access to everything one might need. That is why mall repurposing is pursuing the route of replacing vacant renting spaces with fitness centers, food courts, grocery stores, as well as extra space for events, classes and activities for all ages.

RD Management



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RD Management owns and manages a diverse portfolio of 150+ properties throughout the United States and Puerto Rico

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Property Portfolio
View Properties by Type:

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- Office
- Residential
- Mixed Use
- Hospitality
- Self Storage
- Senior Housing
- Vacant Land
- Under Development
- Future Development

VIEW ALL PROPERTIES

Latest News

Costco Joins Harbor View Marketplace in New Jersey

Demolition of University Mall underway now to prepare for redevelopment

Developers plan to revitalize University Mall

VIEW ALL NEWS

University Mall
Tampa, FL

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University Mall
2200 East Fowler Avenue & Bruce B. Downs Blvd./N 30th Street, Tampa, FL 33612

Location
University Mall is located in Hillsborough County at 2200 East Fowler Avenue & Bruce B. Downs Blvd./N 30th Street in Tampa, FL 33612

Type
Regional Mall

Size
±1,332,205 SF

Parking
6,522 Cars

Major Tenants
Dillard's 143,614 SF
Burlington 101,193 SF
Grand's 90,000 SF

Description

- University Mall, a member of Tampa 'p, is in the midst of a significant transformation into a mixed-use facility to include: retail, entertainment, hospitality, education, medical, office & residential.
- Area employers: University of South Florida, H. Lee Moffitt Cancer Center, VA Hospital, Florida Hospital, Shriner's Hospital, Busch Gardens
- Studio Movie Grill with 14 screens & 3,000 seats, an upscale experience with in-

Map Satellite

Map Data Terms of Use

Site Plan

Aerial View

Demo Reports

Property Flyer

Email Agent

	3-Mile	5-Mile	7-Mile
Demographics			
2013 Projection			
Population	165,965	328,438	516,712
Households	64,775	128,449	199,111
Avg. HH Income	\$46,815	\$65,243	\$68,234

Considerations

- **Zoning & Permitting** – change of occupancy designation may require some research and additional costs and Fire Marshal approval
- **Ease of adaptation** - Evaluate the challenges of retrofitting spaces to accommodate equipment, storage and ventilation
- **Hours** - Consider accessibility, parking, available days/hours vs after hours availability
- **Access** - In a mall, controlled access is another consideration, balanced with welcoming openness



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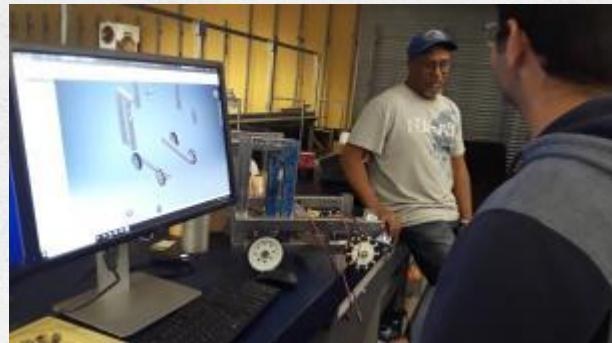
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A blue-tinted photograph of four young students in traditional Native American costumes, including feathered headdresses and beaded necklaces. They are smiling and looking upwards. The photo is overlaid with a blue gradient.

Operational Structure

Clean -> Dusty Layout

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Culture

Once you have space there are a few important considerations in making it effective, safe and sustainable.

AMRoC Fab Lab is a safe and inclusive space, where all are welcome regardless of sex, race/ethnicity, sexual orientation, gender identity or expression, cultural background, age, or physical or mental ability; a place where the rules guard each person's self-respect and dignity and strongly encourages everyone to respect others.

Document and keep within easy reach and open access:

- Mission & Goals
- Code of Conduct
- Facilities Use Rules & Requirements
- Safety Guidelines
- Scheduling Processes
- Costs

Programming



Things that need to be taken into consideration with STEM center programming:

- **Assessing community needs** – *FIRST* center only , or combined community programming?
- **Accessible and Inclusive** – with both space & programming; good signage, accessible tools & resources
- **Costs** – Free or Fee-based?
- **Scheduling programming** –separating noisy activities from quiet ones, machine use away from computers, etc.
- **Working a *FIRST* season** – keeping deadlines and overlapping programs organized, coordinating mentors and training
- **Evaluating success & value/gathering metrics** based on return usage, applied knowledge, job placement, certifications
- **Agile and adaptive** space use that adapts as needed





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Achieving Sustainability Through a Social Enterprise Model

Social Enterprise



Nonprofits **can** engage an earned income venture, selling goods or services to diversify its funding base while providing positive impact in the community.



Examples: Girl Scout Cookies, Inside the Box Catering run by Metropolitan Ministries Homelessness Services, Goodwill stores

More of funding sources:

- Membership & Use Fees
- Sponsors
- Grants
- Naming Rights
- Goods & Services
- Space Rental
- Professional Development
- Micro-manufacturing

Fiscal Responsibility

Fiscal responsibility makes for sustainable social good!

Sample team fees – Queen City Robotics

FRC Teams:

- \$20 per hour
- \$100 per day including use of field & shop
- \$650 per month during build season including use of field & shop

FTC Teams:

- \$20 per hour
- \$50 per day including use of field & shop
- \$125 per month including field & shop

FLL Teams:

- \$300 per season

- Structuring Costs
- Paying Staff
- Maintaining Affordability & Access
- Keeping the Doors Open
- Earned Revenue



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A blue-tinted photograph of four young girls in traditional Native American attire, including feathered headbands and beaded necklaces. They are smiling and looking upwards, with one girl in the foreground looking up with her mouth open. The image is overlaid with a yellow banner at the bottom containing the title.

Building & Maintaining Collaborative Community Partnerships



From ROBOTICON to AMROC

***Relationship
building takes time
but consistency and
a good track record
pays off!***



Six years later, program
our partners include:

- USF
- Hillsborough County
- Lockheed Martin
- Jabil
- JP Morgan Chase
- SOFWERX
- Florida High Tech Corridor
- USF Research & Development

And interest and support
from:

- The ARM Institute
- The USF Innovation District
- Hillsborough County Extension Services
- Hillsborough County Economic Development
- Hillsborough County Children's Services
- Business Center for Diversity & Inclusion

Lather, Rinse Repeat

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- Build on Past Relationships & Successes
- Celebrate Partners Regularly
- Cultivate New Collaborations

Stephen Gran gave me your contact information regarding a possible partnership to bring more robotics and STEM programming and resources to the youth in Hillsborough County. We'd love to learn more about you and your business and how we can work together. I've copied my co-agent, Brandi Yancy, on this message. If there's a time that we could set up a phone call or in person meeting, please let us know.

We look forward to hearing from you and finding ways to partner together.

Have a great week!

Charles K. Poliseno
4-H Extension Agent
UF/IFAS Extension Hillsborough County



ROBOTICON Partner Spotlight: Meet JPMorgan Chase!

Sept 7, 2018



JPMorgan Chase is proud to support the ROBOTICON Program for the second year in a row. The Firm is one of Tampa Bay's largest employers with more than 5,000 employees working locally across all of its lines of business – including nearly 2,000 technologists. It serves consumers and small businesses through more than 50 local Chase branches and 200 ATMs. In addition, the firm has invested more than \$2 million in workforce initiatives to help young people in Tampa Bay gain the skills needed to meet the region's growing demand for skilled workers.

BTB: Why is your organization supporting ROBOTICON Tampa Bay?

JPMC: We believe in setting an example for our community, and supporting those who go above and beyond. We strive to support students in pursuing their passion, whether it be through external programs (such as ROBOTICON), or our own internal programs (One Hour of Code), where we travel to local High Schools and teach students how to code. We believe in not only supporting ROBOTICON, but our youth in the community.



I would like to introduce you to Francis Joseph. He is the President of CANDO (Caribbean American National Development Organization).

While at the UACDC Board meeting this afternoon, I announced your automotive training classes. Francis is very interested in discussing this with you as a training vehicle for the Caribbean-American Community).

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A blue-tinted photograph of a group of young students, likely of Asian descent, wearing traditional Japanese headbands (hachimaki) and smiling. One student in the foreground is laughing with their mouth open. The image is overlaid with a semi-transparent blue rectangle on the right side, which contains the text 'References & Resources'.

References & Resources

Other *FIRST* Centers



The **Kettering University *FIRST* Robotics Community Center**, in Michigan, opened in 2014. The Center is the first of its kind on any university campus in the country, and provides work areas for *FIRST* teams, a regulation size practice field and a lab with machining tools and software.



kettering.edu/about/first-robotics

The **Mary Baker Smith Career Center**, part of the **Lafayette Parish School System(LPSS)** is focused on design & manufacturing, with a robotics & programming lab, machine lab with CNC Mills & CNC Routers, a 3-D printing lab & the states only permanent *FIRST* Robotics Competition field.



queencityrobotics.org

The ***FIRST*® Zone – Charlotte** was created by the three teams forming the Queen City Robotics Alliance: Bots of War #4290, T-Rex #4935, and YETI # 3506. The Zone is 5,000 sq ft. containing a workshop, team storage, competition fields for FRC and FTC and FLL. The space is open to teams in North & South Carolina.



lpssonline.com/site1449.php

Resources



- Creative Uses for Downtown Buildings - <https://fyi.extension.wisc.edu/innovativedowntownbusinesses/files/2017/03/Creative-Uses-for-Downtown-Buildings-030317.pdf>
- Community Progress - <https://www.communityprogress.net/>
- Repurposed Architecture - <https://architizer.com/blog/inspiration/collections/repurposed-architecture/>
- Repurpose Project - <https://ilsr.org/the-repurpose-project-building-community-through-reuse/>
- Community Guide to Repurposing Vacant & Underutilized Historic Buildings - https://www.mhpn.org/wp-content/uploads/2012/08/A_Community_Guide_to_Repurposing_Vacant_and_Underutilized_Historic_Buildings_FINAL.pdf
- Splitting Big Box Stores - https://www.tulsaworld.com/business/real-estate/addition-by-division-splitting-big-box-stores-becoming-commonplace-in/article_7bf459b9-e9c1-57ec-b472-0d403f8e4a46.html
- Shopping Malls Repurposed - <http://www.rdtaxsavers.com/articles/Shopping-Malls>

Resources

- Innovative Funding Programs for Placemaking -
<https://www.pps.org/article/innovative-funding-programs-for-placemaking>
- Opportunity Zones -
<https://www.cdfifund.gov/Pages/Opportunity-Zones.aspx>
- Urban Manufacturing Alliance -
<https://www.urbanmfg.org/>
- Society of Nonprofits – Earned Income:
<https://www.snpo.org/funding/earnedincome.php>
- Mary Baker Smith Career Center, Lafayette, LA -
<https://developinglafayette.com/wp/robotics-programming-3-d-production-machinery-are-all-highly-prioritized-at-w-d-mary-baker-smith-career-center/>
- Charlotte *FIRST* Zone -
<http://queencityrobotics.org/>
- Library Makerspaces: The Complete Guide (Rowman & Littlefield, 2017), Theresa Willingham – for Makerspace/Fab Lab best practices

Questions? Comments? Connect.



Foundation for Community Driven Innovation

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Advanced Manufacturing & Robotics Center Fab Lab

AMRoCTampaBay.com

fablabs.io/labs/amrocfablab

ROBOTICON

ROBOTICON.net

FIRST Looks

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