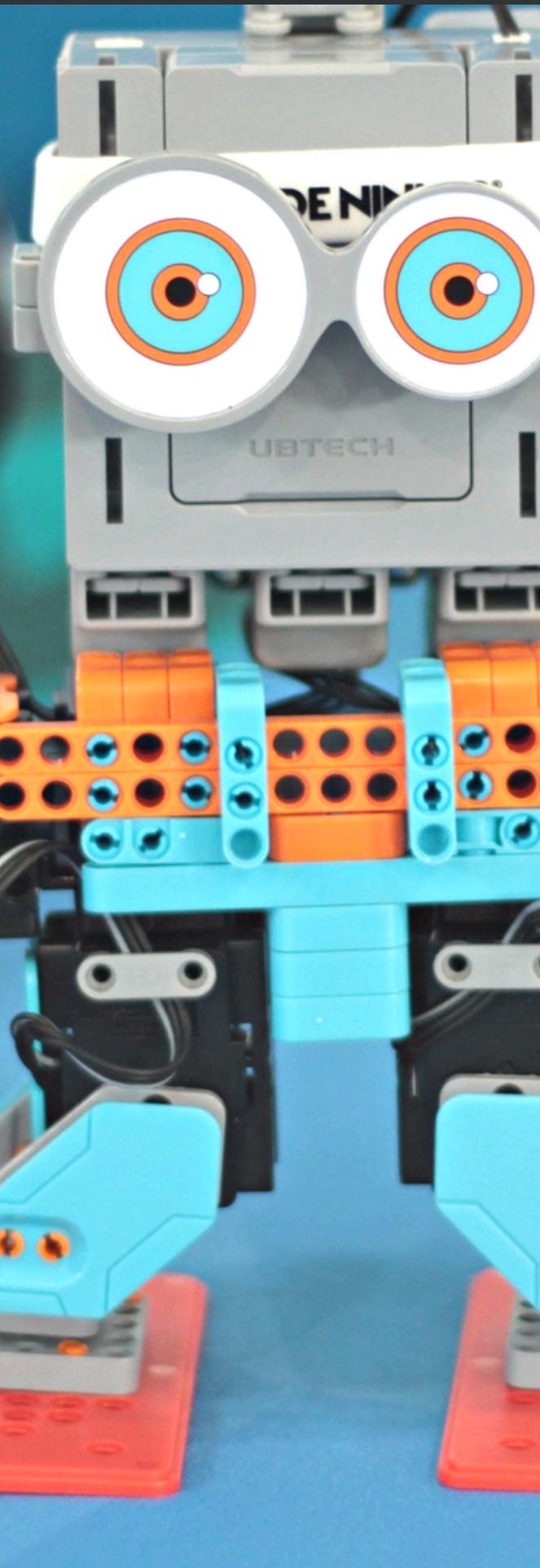


Pollinate the world with STEM; educating one child at a time.





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# What is STEMBeez?

Stembeez is a community of scientists, engineers, mathematicians, astrologists, physicists, and all stem professionals looking to help mold the next generation,

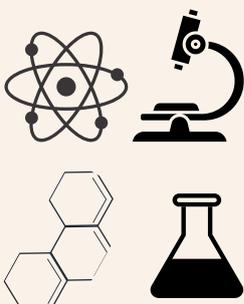
We want to Empower, grow, mentor, and attract the younger generation to STEM fields.



# What is STEM?

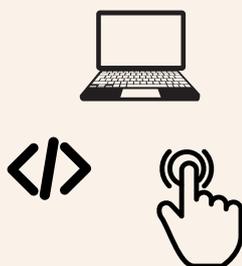
**S**  
SCIENCE

Observing, experimenting, making predictions, asking questions



**T**  
TECHNOLOGY

Being inventive, using tools, making things work, identifying issues, using computers.



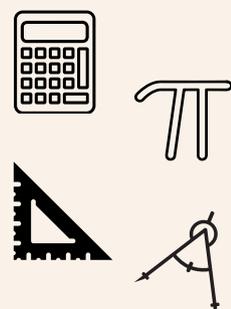
**E**  
ENGINEERING

Solving problems, using materials, designing and creating, building.



**M**  
MATH

Patterning, sequencing, exploring shapes, numbers, volume and size.



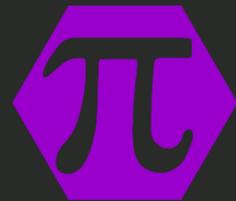


# Our Beginning

STEMBeez was created in 2018 when two friends had a conversation about their college level laboratory experiences.

Socioeconomics plays a large role when it comes to children's access to education. Schools in disenfranchised areas are not provided the funding necessary to provide education in the same manner that those in higher income neighborhoods.

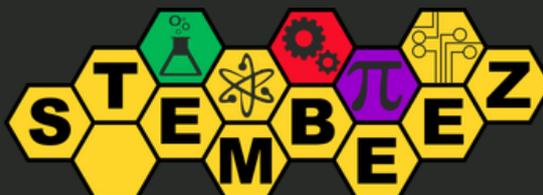
This leaves very few students that are interested in STEM fields. Most of these students do not receive a laboratory introduction until they are in college (when it could be too late).



The laboratory is suppose to be the moment when theory and application weld together and practical comprehension takes places.



Many children are not exposed to these laboratory type settings, so they miss out on that opportunity to grasp the concept.



# Our Founder



CHEMIST

## Shari Campbell

STEMBeez has come a long way from it's humble beginning. We started our program working with Broward College at the South Campus on Pines Boulevard.

We created the curriculum around Chemistry, Biology, and Microbiology, and Physics. Honestly, I think we had more fun than the kids!

One of the things that really makes our program different from the rest is that we are not only introducing new and exciting topics to our students, but we reinforce recall. Recall is a major component of the curriculum as it enforces the material. I could not believe it when we had students saying terms like Streptococcus and Bacilli 4 weeks after they learned them! The curriculum has proven to be effective and resulted in strong permanence.

As a woman in a STEM field, it fuels me to see these young minds engaging in topics that many do not learn until college. You can see the wonder and excitement in their attentiveness and their desire to ensure that the meniscus on the graduated cylinder reads exactly 10 milliliters. Many things make me smile, but this serves as pure happiness.

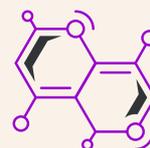
These past coming years have been trials for everyone.

As our country continues to open, and we begin to hug our family members again, COVID-19 continues to replicate and affect those we love.

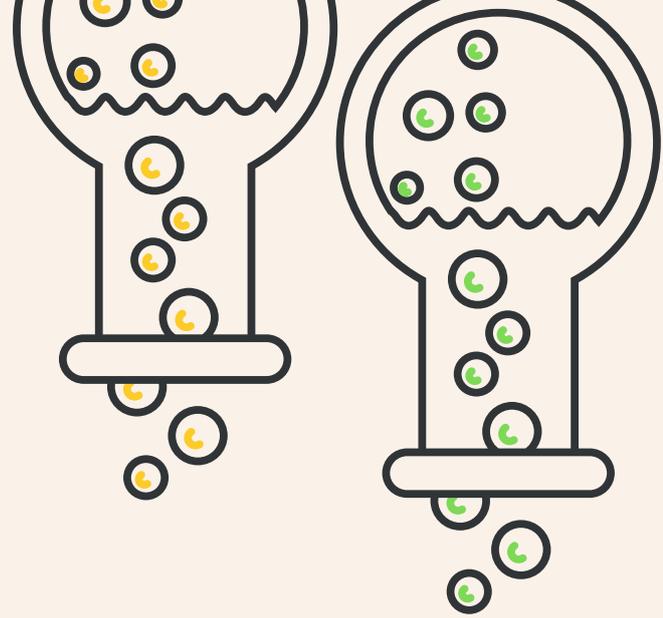
The Board Members and I worked diligently to create our Online Camp in 2020. We restructured, rearranged, and reimagined our curriculum to ensure that students could perform the hands-on components safely from home. Through the hurdles of that year, we were successful. We are thankful to all the parents and students that helped to make that camp so successful.

The positive feedback that we received has given us the motivation to ensure that an online camp will always be available for our students moving forward. This aids our ability to bring our fun and quirky personality to the United States! I can't contain my excitement.

*-Shari*



# Our Board Members



**BIOLOGIST**  
Jonelle Orridge, PhD  
VP, Curriculum



In 5th grade, Ms. Delfina Warwick was the science teacher I looked up to. She was Afro-American, beautiful and her passion for science captured me.



In high school, it was Mr. James Bacchi. His excitement for science kept me hooked to the field.



In college, it was Dr. Frank Cantelmo. His unorthodox way of teaching science afforded me the confidence to pursue science for extracurricular activities that involved science and later leading me to pursue my Ph.D. in biology.



The major difference between Mr. Bacchi, Dr. Cantelmo, and Ms. Warrick was that they were white males. I did not have many people of color within my discipline that I could look up to within my developing years.



I believe that STEMBeez is able to provide middle schoolers with a diverse selection of teachers that bring a unique style of presentation that engages the students that they encounter. The earlier we can capture students to pursue science, the better representation we can have for students in the future. I am very proud to be part of this organization.





CHEMIST  
Kim Simmons  
Communications

STEM is a passion and an important part of my life and the future of our country and world. It is extremely important for the younger generation to not only have an understanding but an appreciation for it.



STEMBeez gives me the ability to share my passion with future scientists. It also affords me the opportunities to help open and grow the minds of the individuals that will be responsible for our future in the STEM fields.



BIOLOGIST  
Debbie Maxwell  
Laboratory Safety, Biologist



I began to develop an interest in science when I was a teenager. My biology and chemistry teachers were fun and energetic and expressed such a passion for science that encouraged me to pursue science. After graduating from college I had an opportunity to follow my passion and to make it a career. This opportunity is not always possible others who have the same passion I have.



STEMBeez was created to fill a gap and to provide a platform where young girls and boys have the opportunity to experience STEM when they otherwise would not get access to it.



STEMBEEZ gives me the opportunity to share my passion with others.



CHEMIST  
Anika Graham  
Community Engagement

I am a dedicated consultant at Laboratory Consulting Services, LLC, specializing in laboratory operations across the pharmaceutical, nutraceutical, and food testing laboratories.

Beyond my professional achievements, I am passionate about inspiring the next generation of scientists. My unique blend of industry expertise and enthusiasm for science education allows me to bridge the gap between complex scientific concepts and young learners. STEMbeez ignites curiosity, fosters a love for science in young minds and empowers them to explore and discover the wonders of the scientific world. Through Stembeez, we can make science fun and approachable and ensure that children not only learn but also develop a lifelong appreciation for STEM.

Graphics  
AF Aperature  
Alicia Palma



As a board member of STEMBeez, I can't help but wish this program existed when I was a kid—there weren't many interactive STEM curriculums in my school. What I love most about STEMBeez is how it makes science fun and accessible for all kids, turning complex concepts into “aha!” moments with hands-on activities. It's incredible to see kids light up with curiosity and creativity.

We're on a mission to turn today's curious minds into tomorrow's innovators, and honestly, I'm thrilled that today's kids get to experience this kind of fun and engaging learning!

# Why are STEM programs important?

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1 Children can learn across different environments, contexts, and see through different learning lenses

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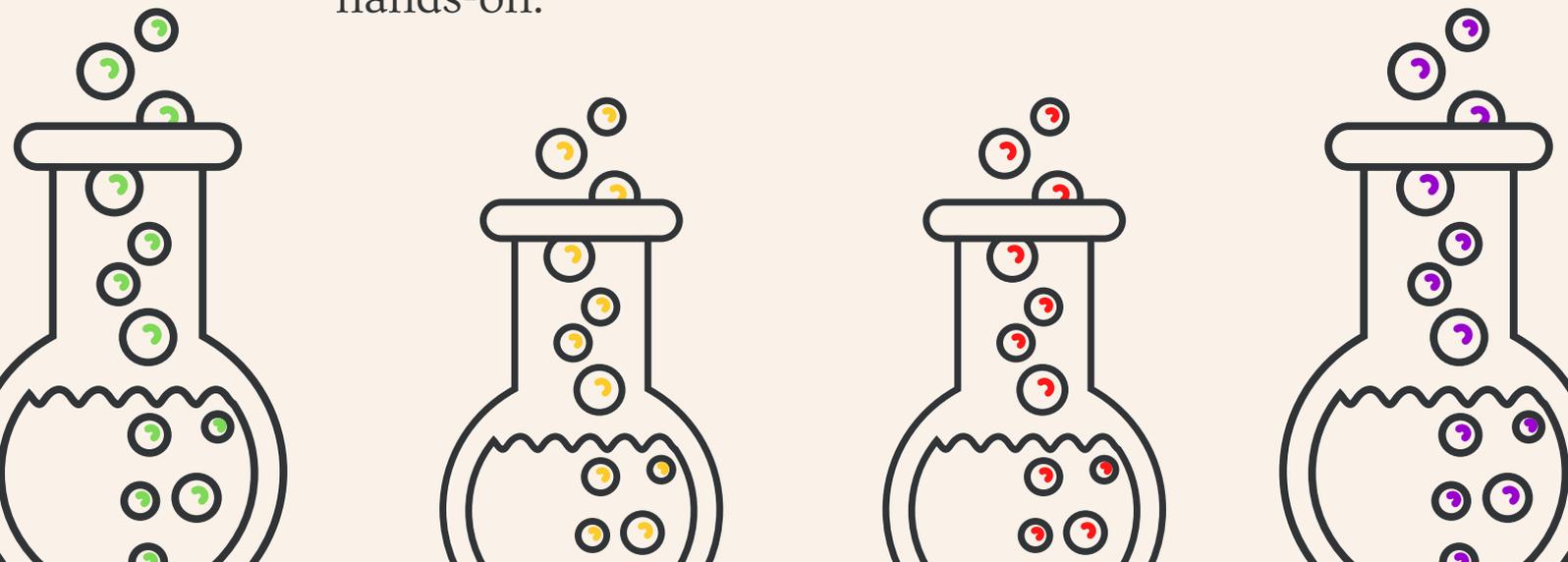
2 STEM subjects are important and rewarding career choices

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3 Early exposure to STEM subjects increases passion and interest in these skills in future years

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4 STEM activities are fun, interesting, and motivating to children because they are hands-on.



# Why kids should be involved in STEM now



Students retain more information for longer periods if what they are learning is categorized as “meaningful” to them.

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Learning is greatly attributed to the brain’s ability to make connections between what is new and what is familiar

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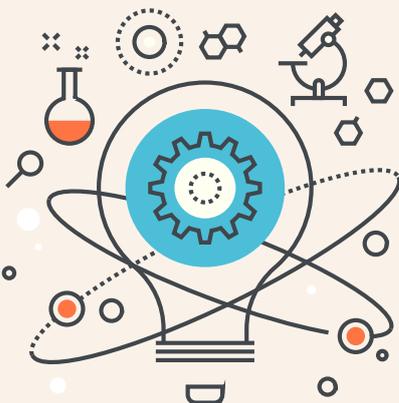
STEMBeez engages multiple modes of learning as possible to increase the chance that students will find their meaning and therefore recall information more readily.





# STEM for Kids Future

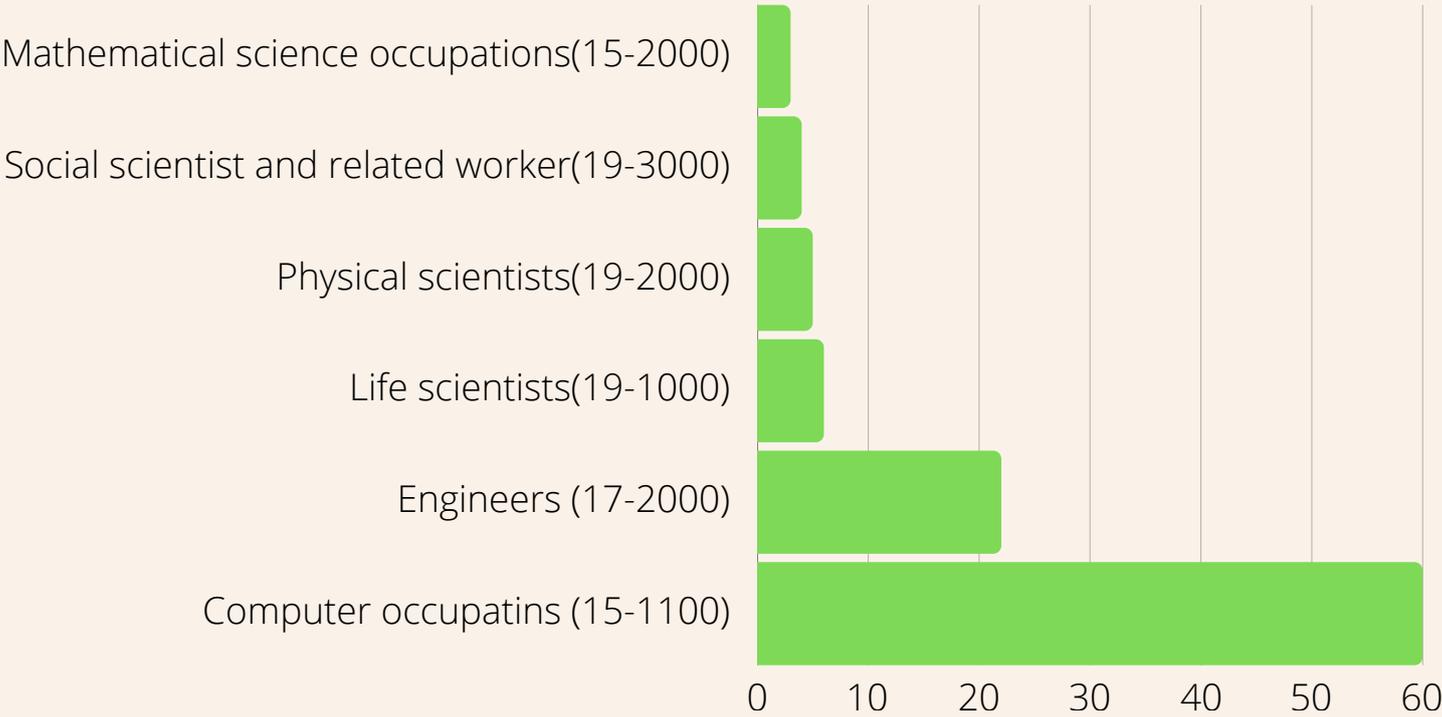
**Reports say STEM fields are growing at a rate that is three times faster than non-Stem careers.**



This is alarming because without ease of access to these careers or sufficient early age educational experiences, many might miss the opportunity to participate.

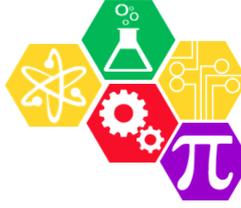
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## **STEM Job Openings (Growth + replacement), 2016-26** *U.S. Bureau of Labor Statistics*



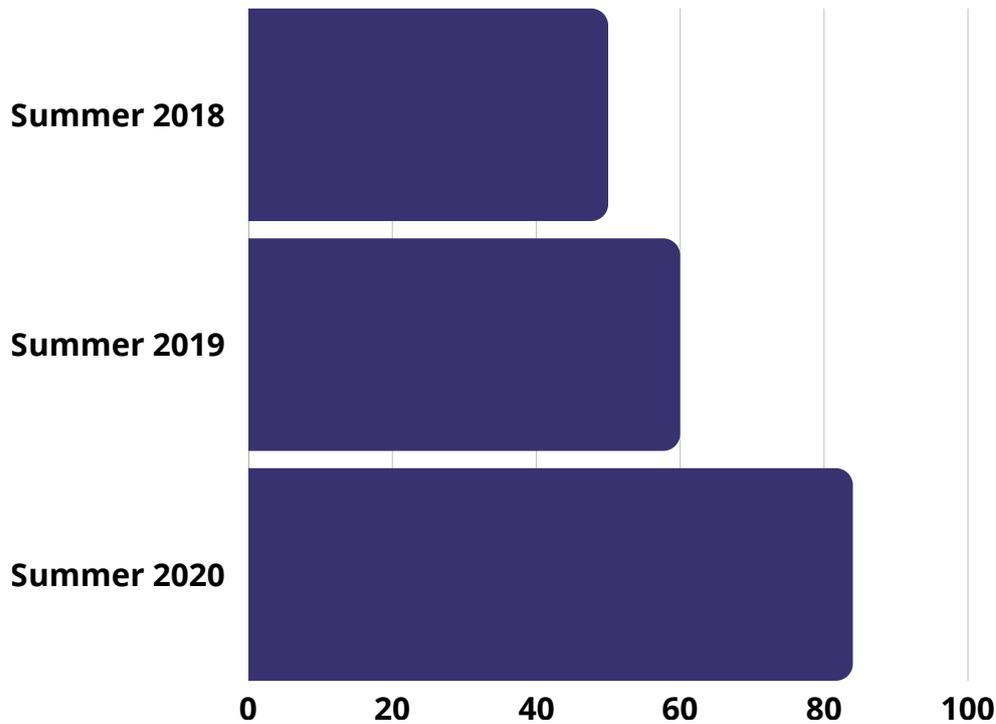
Data from the spreadsheet @ <https://www.bls.gov/emp/ind-occ-matrix/occupation.xlsx>

# The Stats



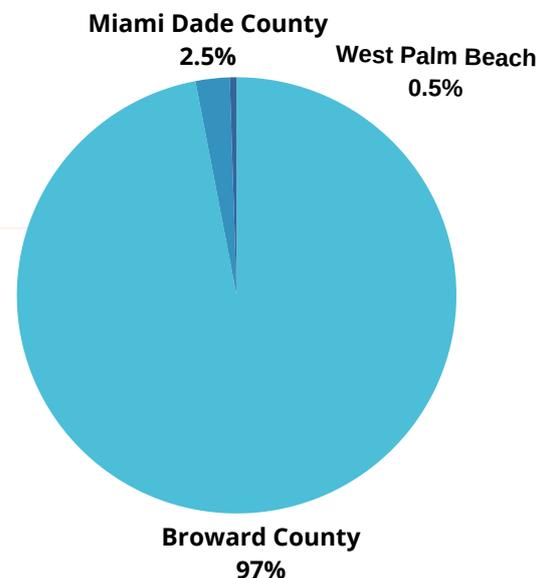
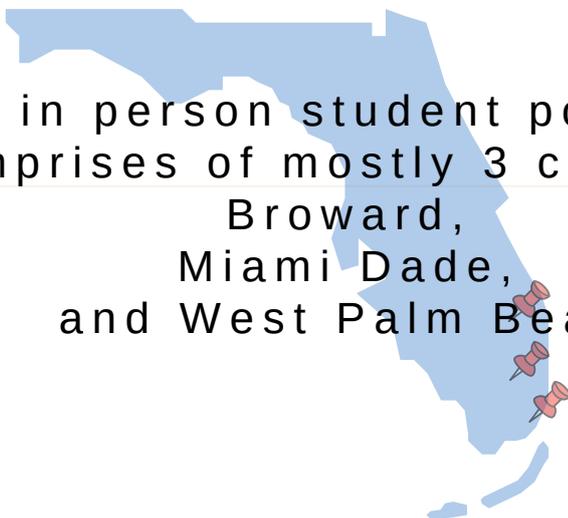
Our summer camps continue to have steady growth over the years with more enrollment options

## STEMBeez Enrollment 2018-20



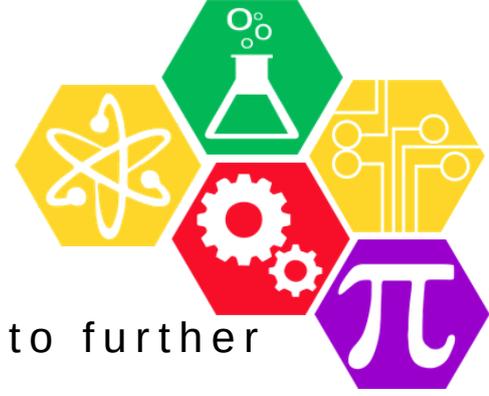
Our in person student population comprises of mostly 3 counties:

Broward,  
Miami Dade,  
and West Palm Beach



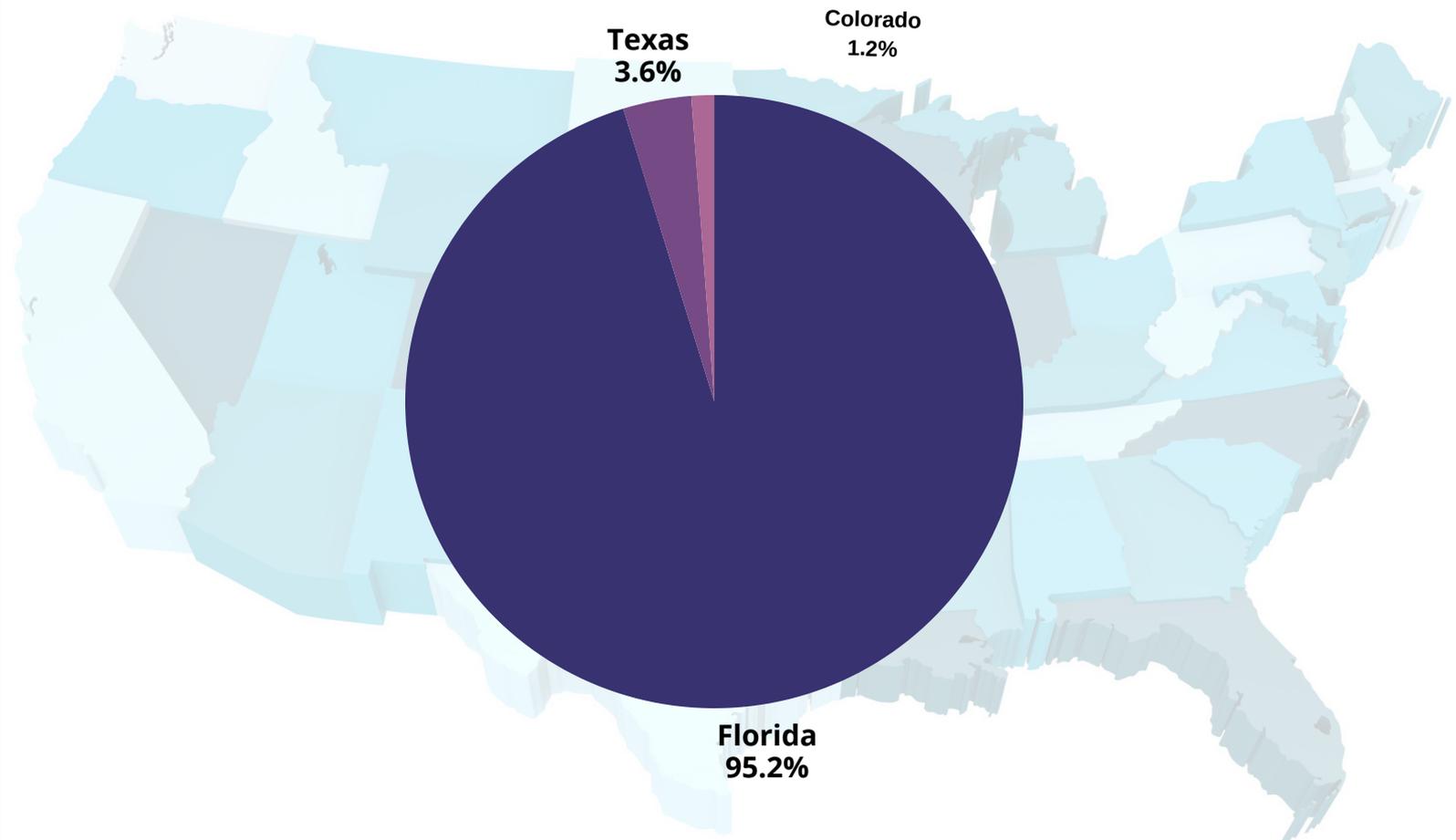
This represent actual data collected from the camps

# The Stats



Our 2020 Virtual camp allowed us to further our reach to other states.

## STEMBeez Virtual Camp Enrollment by State 2020



Only marketing our virtual camp for a south Florida market, we received interest from other states.

This helped us to realize how an online camp with a hands-on approach can be expanded across the United States



“According to Brown et al. (2016), the educational deficit in STEM areas has led to a workforce gap in many STEM professions. Informal learning environments can support student STEM knowledge and skills (e.g., Denson et al. 2015), positively impact student interest in STEM (e.g., Denson et al. 2015; Mohr-Schroeder et al. 2014), and increase the likelihood to pursue a STEM career while attending college (Kitchen et al. 2018; Kong et al. 2014).” -Roberts et al 2018





# Our Programs



# STEM Day

STEM Day with STEMBeez is our annual event that commemorates Martin Luther King Day of Service.

It is one of our opportunities to show students of all ages and backgrounds that education and occupation in the STEM fields are not out of reach and that there is a community that widely supports them.

This free event has seen tremendous growth with over 250 children seen working on a range of activities in Biology, Chemistry, Geology, Engineering, and so much more!

We believe in a hands-on approach throughout all of our programs, and STEM Day is no different. Families can expect to take home many projects with opportunities to win prizes throughout the day.



# STEMBeez Online Camp

We wanted to create an environment where we maintain the hands-on learning components of education while preserving the safety of the children and their families.

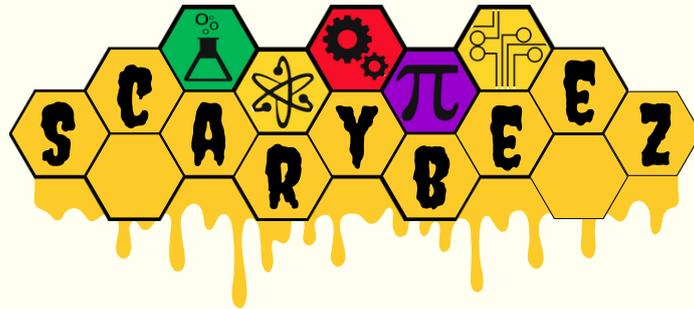
So we created an online camp where students can engage in interactive, hands-on based activities with the guidance of a “live” engaging professional. Our teachers are experts in their field, so who better to teach it?

## Why We Went Virtual

The COVID-19 virus left many families in financial distress in south Florida. We are dedicated to our communities and believe that education should not be hindered because we are miles away.

So we created our 1st ever Online STEMBeez camp. We maintained our learning structure and adapted it to a virtual setting. Smiles all around!

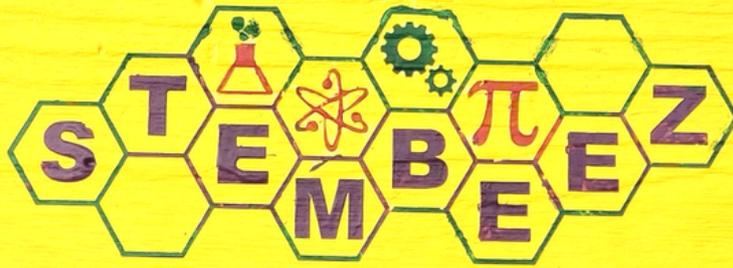




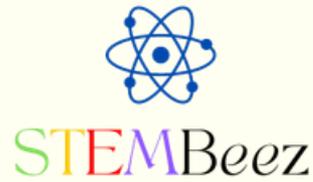
Scarybeez is an annual event held every October, and despite its name, there's nothing frightening about it. This event is designed to be fun, interactive, and educational, offering a delightful exploration of various STEM (Science, Technology, Engineering, and Mathematics) concepts for attendees of all ages. Through exciting activities and demonstrations, Scarybeez aims to spark curiosity and inspire learning in the realms of science and innovation.

In collaboration with Broward College - North Campus, Scarybeez underscores a strong community focus by providing a free event accessible to everyone. It serves as a platform for families and individuals to come together, engage in hands-on experiments, and deepen their understanding of STEM subjects in a welcoming and inclusive environment.





## Future Programs



As we continue to grow, we have identified the need to implement these learning techniques into a training program for teachers that teach our students throughout the school year.

This upcoming program will introduce active learning tools to our teachers to help keep students engaged in STEM programs all year round. This includes international programs where STEMBeez will help to put build STEM curriculums, build learning centers, and to help build a riveting STEM foundation for schools in areas that do not have adequate access to funding.



## Upcoming Events



Science Saturdays



Beez in Christ



Pop-up Events

**COMING SOON**

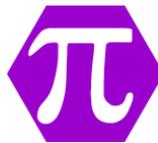
We are always coming up with new and interactive ways to bring STEM to students. For all up to date information, please visit our website

[www.STEMBeez.com](http://www.STEMBeez.com)

# Our Commitment



We are dedicated to the success of the younger STEM generation. When you add a hands-on component to an interactive presentation, those students that were unable comprehend the subject being taught both verbally and visually, will have another opportunity to grasp an understanding.



By employing visual, auditory, and kinesthetic learning into our curriculum every child is given the same opportunity to flourish. For most children, STEM education requires a kinesthetic approach, and by exposing them to those concepts during their primary and secondary years in school, they are allowed to build a stronger foundation and will have a better understanding when it comes to approaching the subjects at hand.



# Your Support

We hope that you see the value of our program in the community as much as we do.

Your support could help a generation of young scientist find their drive, help teachers fuel their passion into our future, and help to promote a thriving field with endless opportunities

**We hope you join us as we pollinate the world with STEM; one child at a time.**

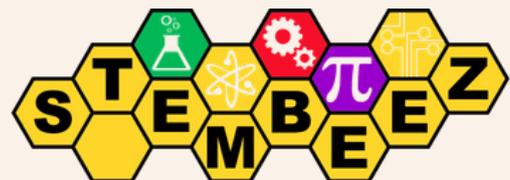


*Thank you*

FOR YOUR SUPPORT

FROM THE STEMBEEZ TEAM

LET'S BEE FRIENDS



[www.STEMBeez.com](http://www.STEMBeez.com)

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