

IT-ology[®] 2020

Annual Report



President's Letter

Dear Friends,

Throughout IT-oLogy's history, when transitions and challenges arise, we have embraced them as new opportunities to build toward a greater future. We are grateful to our generous donors, sponsors, customers, partners and stakeholders for enabling IT-oLogy to seamlessly adapt our services and serve our constituents when needed the most. Your support has been a lifeline to us and to the communities we serve. We are indebted to your generosity, and we offer our deepest gratitude for your belief in and support of our mission.

Because of you, we were able to adapt and expand our virtual services to provide a safe way for innovative learning during the pandemic for both students and parents. In July 2020, IT-oLogy launched two new virtual programs, Tech-In-A-Box and a Girls Who Code Club having now served over 500 students in South Carolina. We also hosted a virtual NCWIT Aspirations in Computing Awards ceremony with scholarship opportunities impacting 83 students, 115 educators, 118 parents and business professionals. We transformed our onsite K-12 workshops to virtual, live instructor format while supplying our students with gadgetry, hands-on activities and on-demand learning resources to complement lessons learned in our live, instructor-led virtual classroom. IT-oLogy's programs reinforce STEM concepts and computer science state standards to support what our students are learning in school and inspire them to one day pursue a career in IT.

IT-oLogy's mission is vital. According to a CompTIA study, in 2020, 29,274 tech jobs were posted. In 2021 SC ranked #7 in the US for tech occupation growth. We are excited about the coming year as IT-ology pledges to train and educate our constituents of all ages in developing and implementing innovative technology solutions to solve the challenges of the present and future. We will assist SC businesses in adapting to new ways of creating and delivering value including training, upskilling and reskilling current and future workers. We will show the youth in SC the wonder of technology and when used correctly its ability to solve global problems.

We invite you to join IT-ology in our journey to fill the IT talent pipeline in South Carolina by learning more about our work, our partners and our stewardship of charitable funds. Join with us in making an impact and building the IT workforce in SC.

Tammy Mainwaring
President & CFO
IT-oLogy

Mission Statement

IT-oLogY's mission is to promote, teach and grow a diverse IT workforce to address the growing IT skills crisis in South Carolina.

IT-oLogY provides technology-based innovative and interactive programs that prepare all South Carolinians to survive and thrive in the 21st century economy. IT-oLogY engages with 4k-12th graders and college students, educators, career changers, veterans and IT professionals.

Diversity & Inclusion

At IT-oLogY we are passionate about creating an inclusive workplace that promotes and values diversity so that we may better serve our customers from all walks of life. IT-oLogY's vision is to use technology to promote equality and inclusion in the workforce.





IT-oLogy Beliefs

IT-oLogy believes that real, systemic change begins with early childhood education continuing through IT career professional development, creating a cradle-to-career pipeline.

Research confirms that in addition to technical skills, SC IT employers have a critical need for IT professionals with excellent interpersonal and communication skills. All of our core programs integrate soft skills creating the “Whole IT Professional.” IT-oLogy is committed to bringing together businesses, parents, educators and community leaders to close the IT skills gap in South Carolina.

COVID-19 Response:

With the urgent and rapid shift in the use of technologies for basic activities that citizens, government, schools and businesses perform on a daily basis, IT-oLogy's work has catapulted to the forefront of SC's needs and its services are more critical than any other time in our history.

While the pandemic continues, the need for IT-oLogy programs grow. IT professionals quickly fulfilled their roles of developing solutions allowing SC's businesses, nonprofits, communities, schools. and government to continue.

Technology enables critical functions such as logistics coordination, online requests for assistance, mental health counseling, telehealth services, the tools to develop vaccinations and perform contact tracing, online education, critical business and family communications. Most recently, technology solutions are allowing South Carolinians the ability to schedule COVID-19 vaccinations among numerous other activities.

IT-ology trains and educates its constituents in developing and implementing innovative technology solutions to solve the challenges of the present and equips them with the knowledge to use critical thinking, innovation and problem solving to prevail over future problems.

IT-oLogY Methodology

IT-oLogY practices "Building the Whole IT Professional" by implementing the pictured cradle-to-career methodology. IT-oLogY's programs are designed to introduce technology to students in their formative years to foster a love and interest in technology while building their technology confidence.

IT-oLogY offers specialized programs, events and/or classes for individuals in Pre-K to current IT professionals. This methodology was crafted to support future IT leaders through every stage with the goal in mind of developing lifelong learners and IT professionals who give back to the community by filling important IT roles in South Carolina.



2019 - 2020 Impact

Thanks to your support, IT-oLogY has impacted every county in South Carolina through our K-12 field trips, competitions, teacher professional development, STEM festivals, IT professional development and conferences.

By the numbers

6,020 K-12 Students

1,484 Educators

1,221 Parents

806 Professionals

242 Volunteer Hours Logged



South Carolina Statistics

Source: CompTIA Cyberstates

**NET TECH JOBS GAINED
IN SOUTH CAROLINA
FROM 2010-2019**

34,408

Source: Code.org



STUDENTS WHO LEARN COMPUTER SCIENCE IN HIGH SCHOOL ARE 6 TIMES MORE LIKELY TO MAJOR IN IT, AND WOMEN ARE 10 TIMES MORE LIKELY.

Source: CompTIA Cyberstates

TECH-RELATED EMPLOYMENT HAS A PROJECTED GROWTH RATE OF 2.9% IN 2021.



Source: Code.org

3,375

**OPEN COMPUTING JOBS
IN SOUTH CAROLINA
CURRENTLY**

K-12 Programs

IT-oLogY's core K-12 programs are designed to not only educate students, but to introduce them to the possibilities of technology. IT-oLogY offers customized program solutions for educators and parents. All services are crafted to support future IT leaders through every stage of their development with the goal in mind of developing lifelong learners and IT professionals who give back to the community by filling important IT roles in South Carolina.



Girls Who Code

Tech-in-a-Box Camps



NCWIT Aspirations



IT-oLogY Tech Explorers



Virtual Field Trips

Our Programs



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All IT Enrichment programs align with South Carolina Department of Education Computer Science Standards, ITEEA Standards in Technology Literacy, and ISTE National Education Technology Standards and cross all disciplines.



"IT-oLogy's programs were an excellent introduction to technology for my children. The instructors, as well as the material, provided rich content at a level that could easily be absorbed and applied. Thank you so much!" -Parent



Virtual Field Trips & Cyber Enrichment Programs:

IT-oLogY delivers technology content to students either at your site or virtually. Virtual Field Trips and IT enrichment programs cross all disciplines and meet South Carolina Department of Education Computer Science Standards, ITEEA Standards in Technology Literacy and ISTE National Education Technology Standards. All programs are project-based and customizable for all ages, unless otherwise noted in the description. Previous experience with technology or programming is not required for any topic. All topics are listed below:

IT-oLogY Tech Explorers:

IT-oLogY's Tech Explorers integrates technology and life skills together in a fun and exciting way for 4-7 year old students. Students relate to the adventures of memorable characters in amusing stories and learn timeless principles. Students also discover their creative side and spark their imagination by exploring, making, creating, crafting and tinkering using electronics, robotics and art materials.

“This class was so much fun! I love learning about circuits! Thank you” – Student

Girls Who Code:

IT-oLogy's Girls Who Code Club is meant for girls to join our sisterhood of supportive peers and role models and use Computer Science to change the world. Girls learn from fun coding tutorials, build community through interactive activities and learn about inspiring role models. They learn the concepts of loops, variables, conditionals and functions that form the basis of all programming languages. Girls also work in teams to design and build a Girls Who Code Project that solves real world problems through code.

Aspirations in Computing:

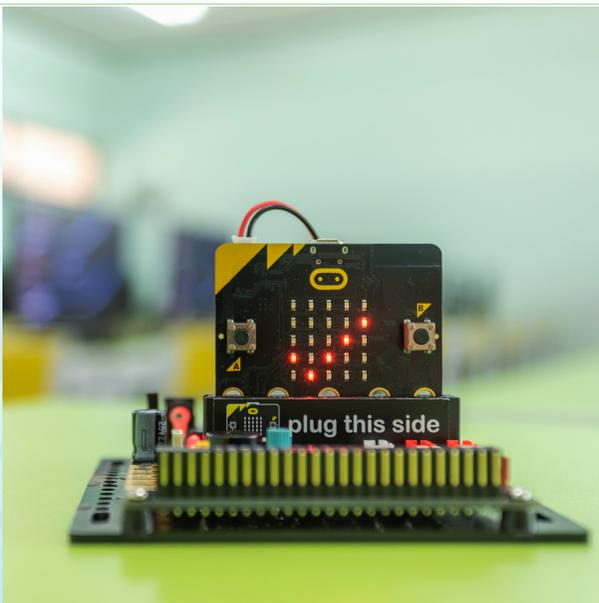
IT-oLogy is the South Carolina Affiliate for the Aspirations in Computing award. The NCWIT Award for Aspirations in Computing builds a talent pool for the growing technical workforce and helps academic and corporate organizations celebrate diversity in computing by honoring young women at the high-school level for their computing-related achievements and interests. Award recipients are selected based on their aptitude and aspirations in technology and computing; leadership ability; academic history; and plans for post-secondary education. Interested high school young women can apply, starting in September. Winners are announced the following year in March.



Tech-in-a-Box

IT-oLogY's Tech-In-A-Box program is an innovative, three-day, virtual learning experience for students to experience the excitement of technology. Everything needed for the workshops is mailed directly to the students' door and is theirs to keep. The supply boxes are filled full of STEM supplies and technology gadgetry to use during the weekly workshops. Additional hands-on activities and on-demand learning resources are also provided to complement lessons learned in our virtual classroom. Through project-based learning, students find comfort in knowing they can work at their own pace, and openly share their innovative ideas and creativity around coding and circuitry. The activities and challenges do not require any previous technical experience and are designed with gaming attributes. IT-oLogY's Tech-In-A-Box program reinforces STEM concepts and computer science state standards to support what our students are learning in school and inspire them to one day pursue a career in IT. Tech-In-A-Box allows students of multiple experience levels the space to learn something new and most importantly, have fun!

micro:Bit



“IT-oLogY's programs were an excellent introduction to technology for my children. The instructors, as well as the material, provided rich content at a level that could easily be absorbed and applied. We're so happy to get technology that we can keep experimenting with at home. Thank you so much!” – Mom of 3

Professional Programs and Events



At the Summit, we gather experts who present the latest research, trends and opportunities regarding South Carolina's information technology sector. We address our state's current IT workforce challenges and provide practical solutions to ensure a successful future.



Over the last 30 years, ITIL has become the most widely used framework for IT management in the world. It's the de facto global framework for IT departments. The ITIL certification is widely used and accepted as a framework for managing the IT lifecycle.



CompTIA, the world's leading tech association, has four IT certification series that test different knowledge standards – from entry-level to expert. The unparalleled programs set industry standards, foster skills development and generate knowledge and insight every day.

Team Building

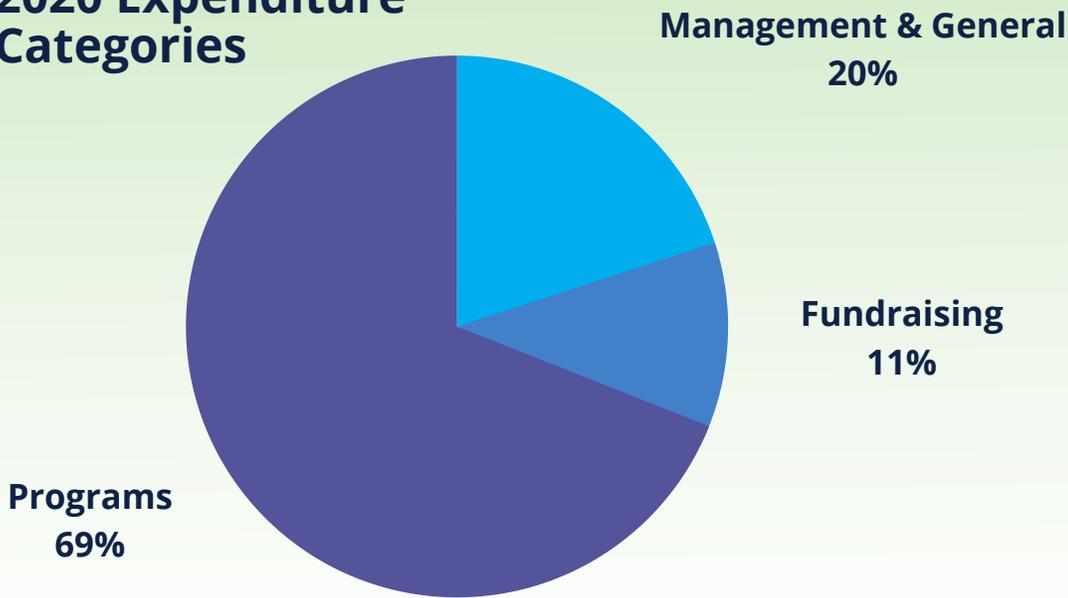
By incorporating high-quality, technology-based activities with strong collaboration and communication skills, your employees are sure to have a blast—all while building team morale, trust and motivation. Using technology gadgets such as robots, drones and virtual reality, team members are challenged to work together to code, design and problem solve different scenarios.



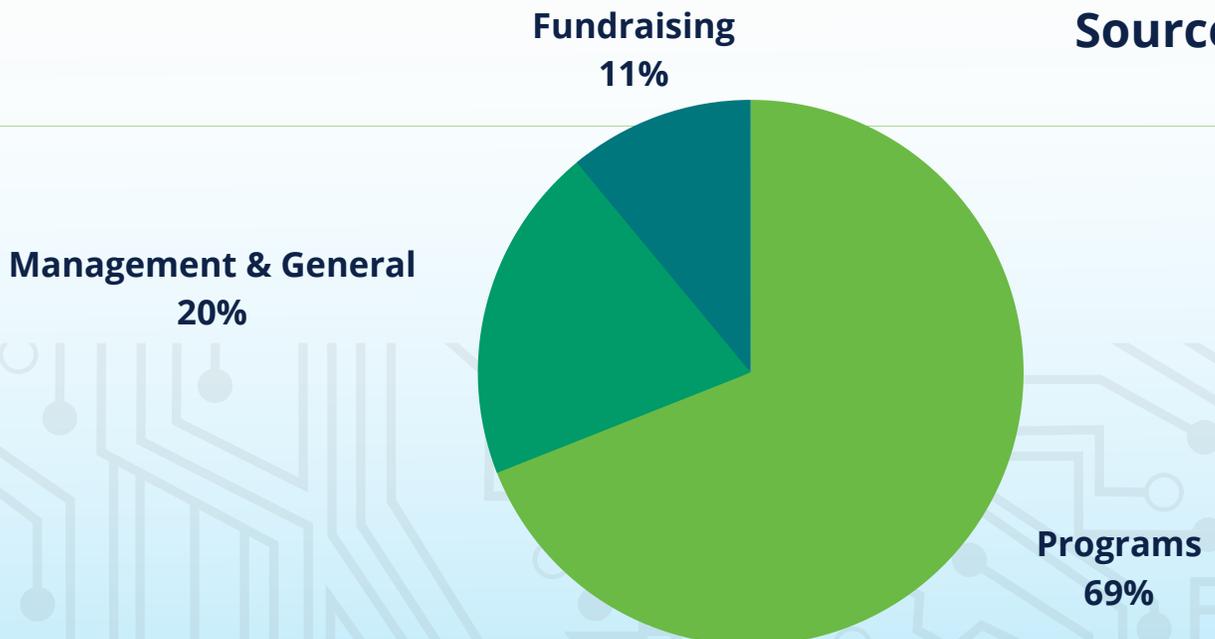
The diverseIT program works to promote and grow diversity within the STEM workforce through mentorship, networking, professional development and community outreach.

2020 Finances

2020 Expenditure Categories



2020 Revenue Sources



IT-oLogY® Collaborators

Thank you to all of our Collaborators, Supporters, and Donors who have helped make IT-oLogY's mission possible. Your support is invaluable.



SOUTH CAROLINA ASSOCIATION OF INDEPENDENT HOME SCHOOLS
Passing the torch to the next generation



Epworth
Children's Home

IT-oLogy Board of Directors



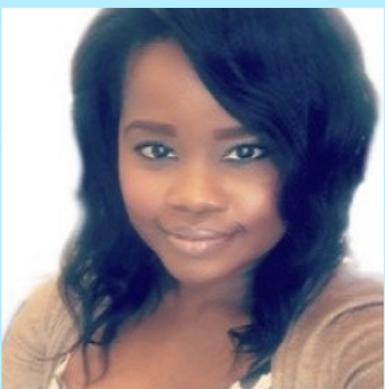
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