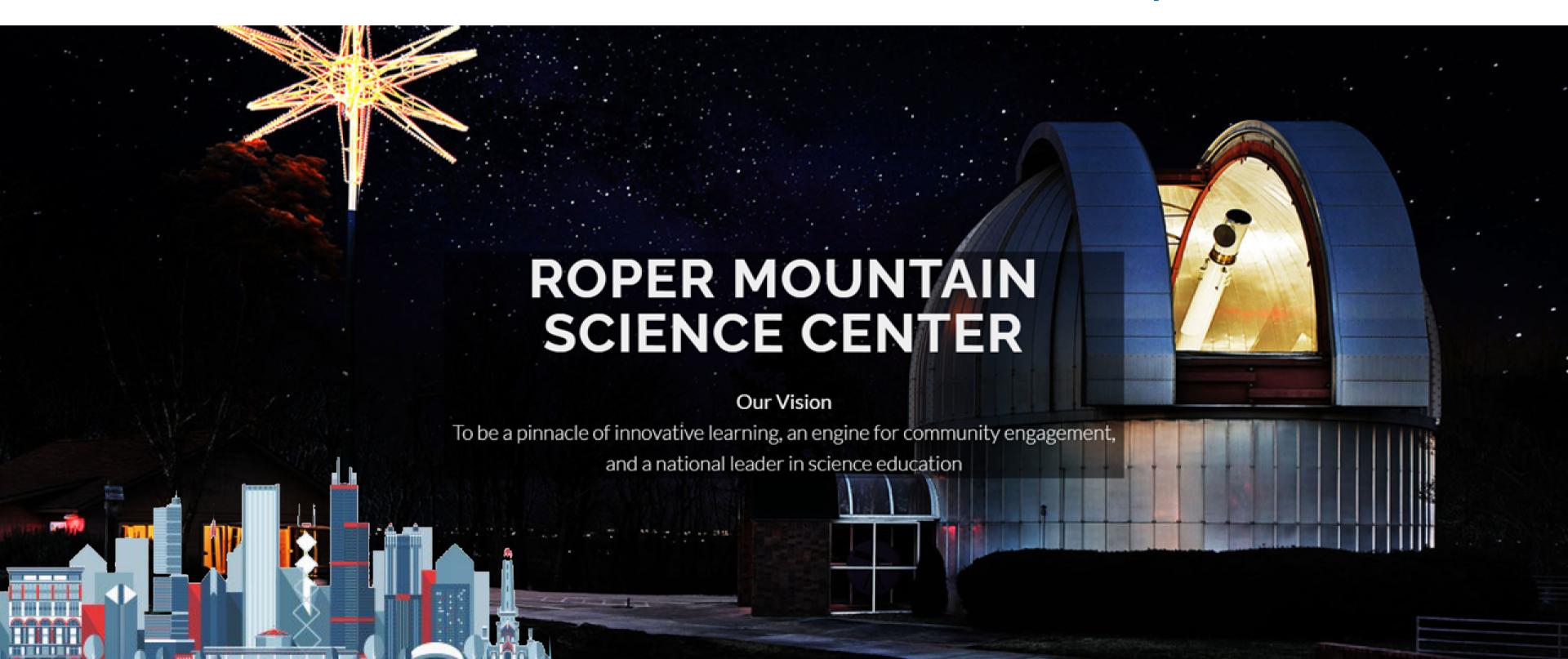




GO TELL IT ON THE MOUNTAIN

A Story of Innovation & Community Partnership in South Carolina's Largest School District

A one-of-a-kind facility: a school district owned science center with a plethora of unique resources on a 62 acre campus







A Brief History of Roper Mountain Science Center

OUR HISTO

1967
Roper Mountain site
purchased by State
of South Carolina for
tricentennial celebration.



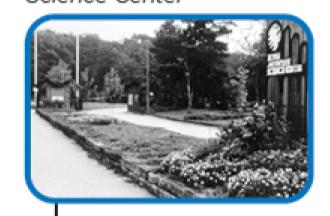
1974 South

South Carolina
Department of
Parks, Recreation
and Tourism deeds
Roper Mountain
to the School District
of Greenville County
"for use as an
environmental
science center."

1982 Horticulture building - now Harrison Hall -



1985Official opening of Roper Mountain Science Center





1970 The "Piedmont Expo Center" opens at Roper Mountain.

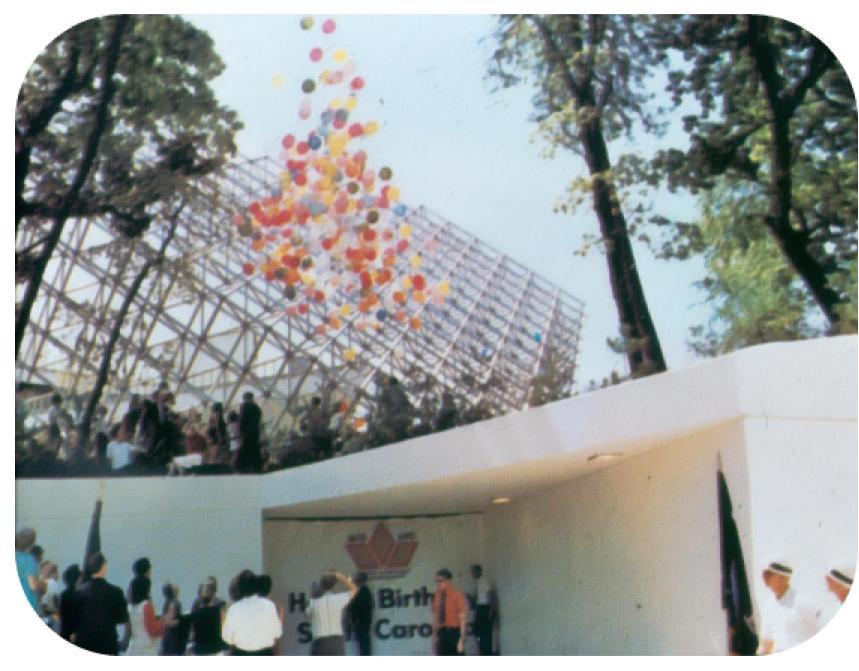


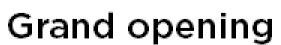
1979
First permanent facility,
Robert Wilson
Amphitheater, is dedicated.

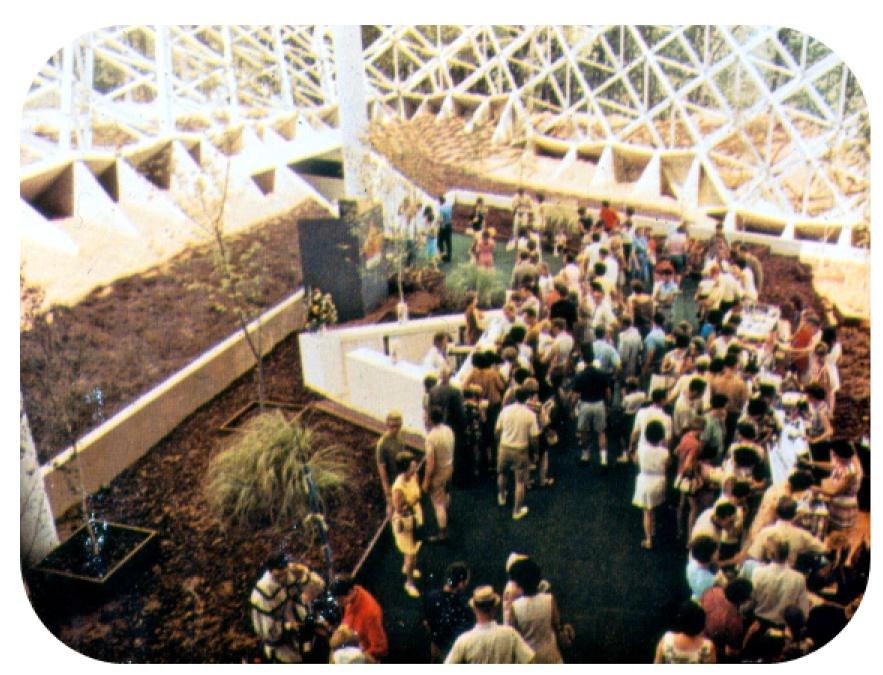


1983
Roper Mountain Science Center
Association established.
Minor Shaw is first President.

Piedmont Expo SC Tricentennial Project - 1970







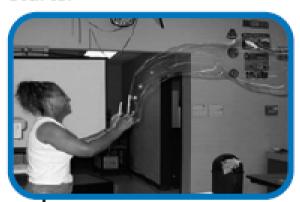
July 4, 1970

A Brief History of Roper Mountain Science Center

1988 Symmes Hall of Science grand opening.



1993 Science PLUS Institute starts.



2017 Harrison Hall of Natural Science renovation





1987Dedication of Daniel
Observatory



1990 Hooper Planetarium opens



2002
Opening of
David H. Wilkins
Conference Center



2019Groundbreaking
for new Environmental
Science Center

How were the buildings built?

A great example of public/private partnership:

The Roper Mountain Science Center Association, a 501(c)3 whose purpose is to support Roper Mountain through fundraising, advocacy and volunteerism, worked hard to fulfill the master plan. By 1989, the Association had raised funds to construct the main buildings on the campus.

- 1983 Roper Mountain Science Center Association approved by School Board in September.
- 1984 Master plan approved by School Board
- 1985 Official opening of Roper Mountain Science Center and dedication of Living History Farm
- 1984-1990 Daniel Observatory, Symmes Hall of Science, Hooper Planetarium, Living History Farm constructed.
- ALL funds for buildings and masterplan projects were fundraised for and raised by the RMSC
 Association. After construction, the buildings were turned over to GCS to operate and maintain.
- From 1983-2018 the Association had raised more than \$11.5M to construct buildings and support programs.
- Key donors during this period: Daniel Foundation, Symmes Foundation, Hipp Foundation, Junior League, DOW Chemical, Greenville Medical Auxiliary, Piedmont Health Care Foundation, Liberty Corporation, State of South Carolina, Duke Energy, GE, Fluor, Michelin, Bon Secours.



Symmes Hall of Science

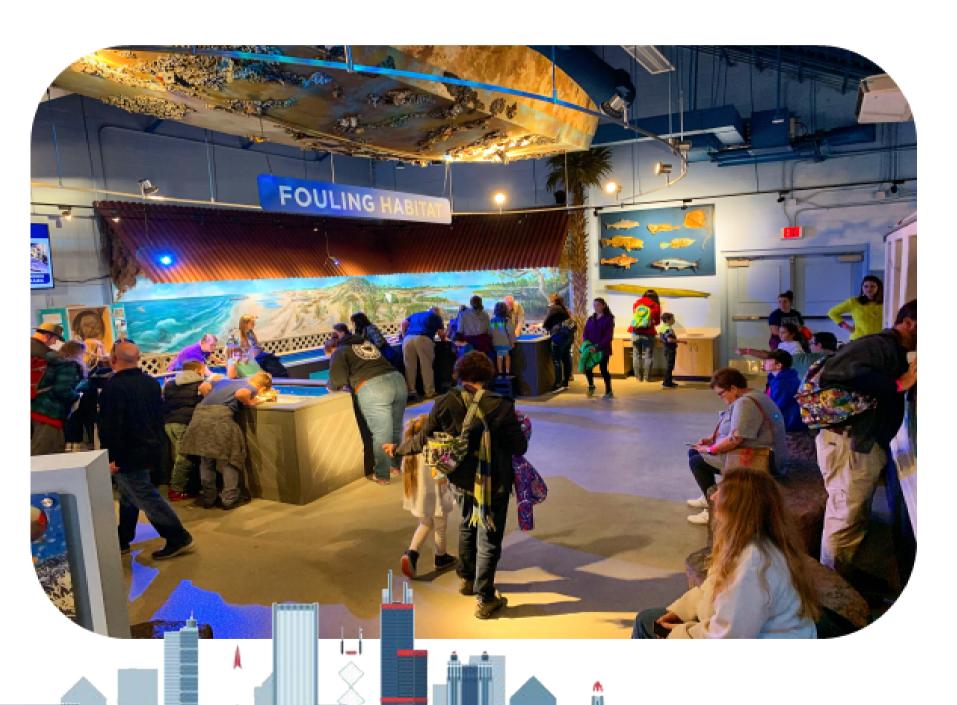
STEM, physics, chemistry, and robotics labs





Harrison Hall of Natural Science

Animal habitats, rainforest, marine, ecology and mineral labs





Daniel Observatory

8th largest refracting telescope in North America





Hooper Planetarium

New 4K state of the art projection system





Living History Farm

Log cabins, one-room school, and heritage gardens







Community Focus Groups

community cycle facility el storybased usecreate exhibitory Rooms

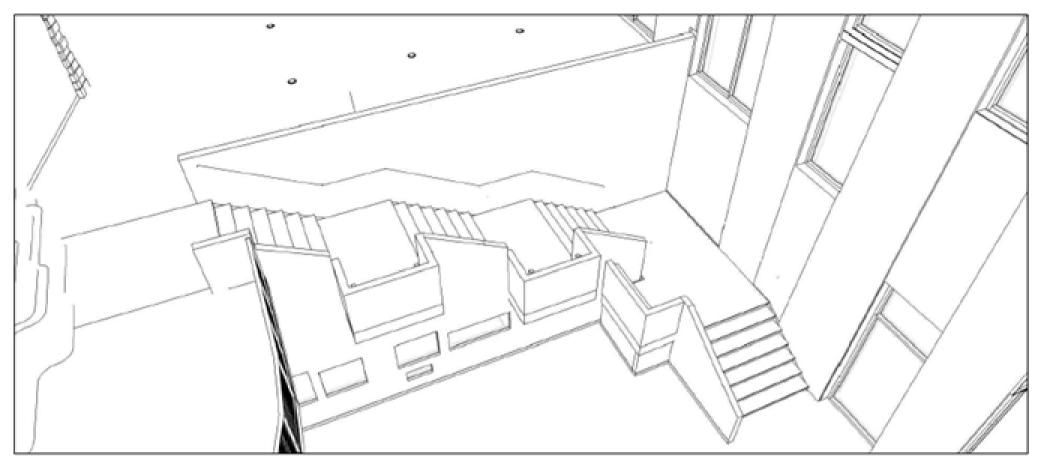
Community Focus Groups Ed Specs

The Top Ten

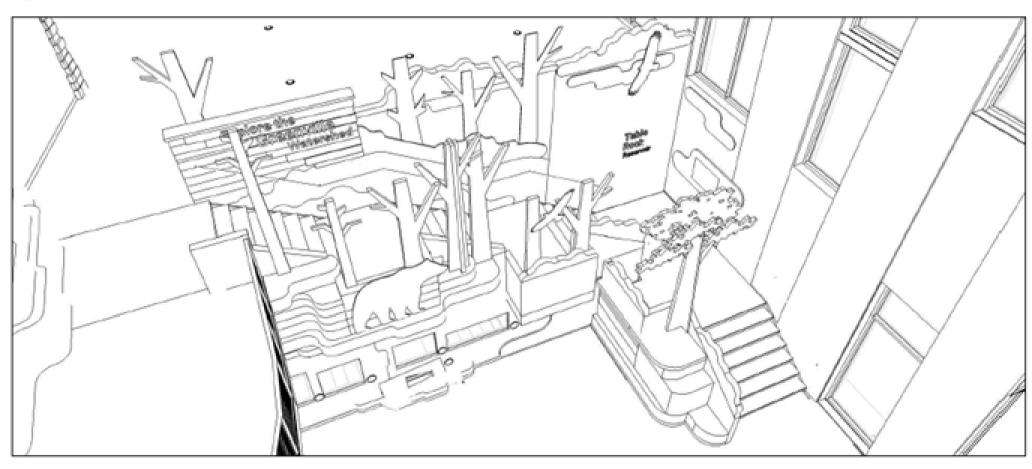


Engaging community stakeholders in order to make a staircase into an immersive watershed





AXON - "AS BUILT" STAIRCASE

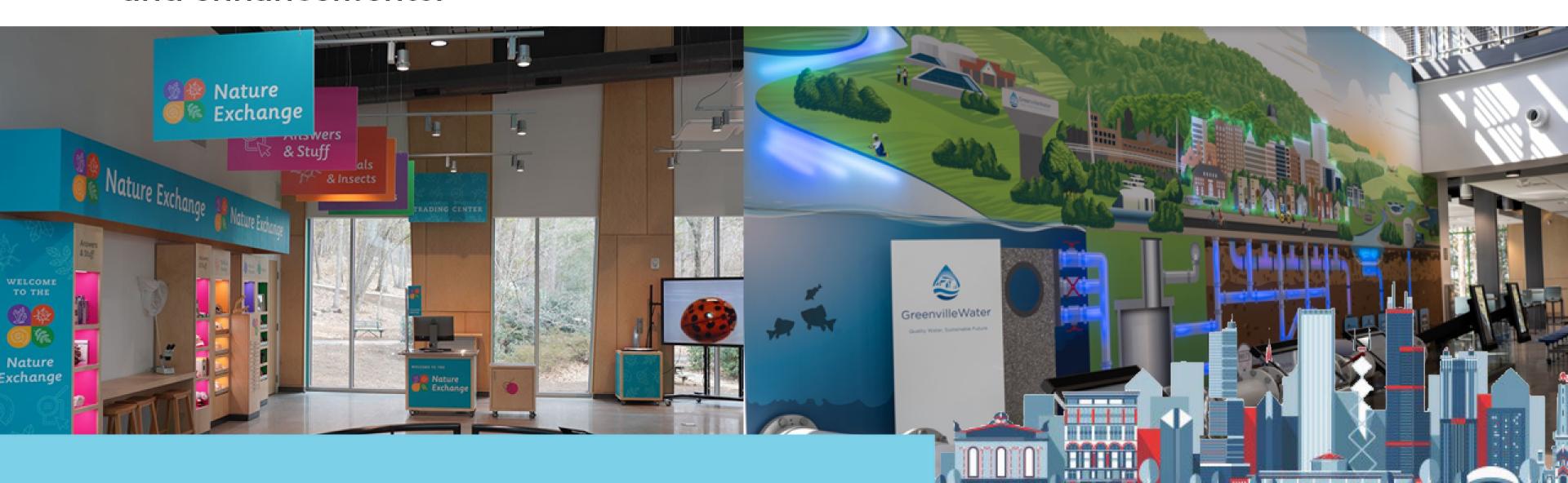


AXON - STAIRCASE WITH EXHIBITS



Featuring exhibits and enhancements:

- The Nature Exchange and Habitat Walkthrough in Orientation,
- Our Water Story, and
- Sustainable Future.
- The RMSC Association has developed and executed the "Doing Big Things on a Little Mountain" Capital Campaign, which has raised over \$3 million to fund these exhibits and enhancements.







THE DANIEL-MICKEL FOUNDATION



















































Spartanburg

Greenville Federal Credit Union



FAFL

















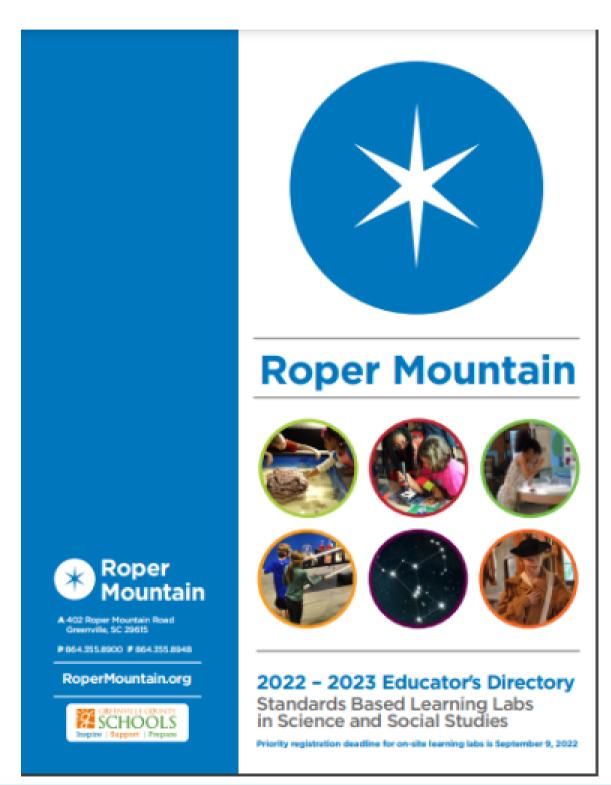






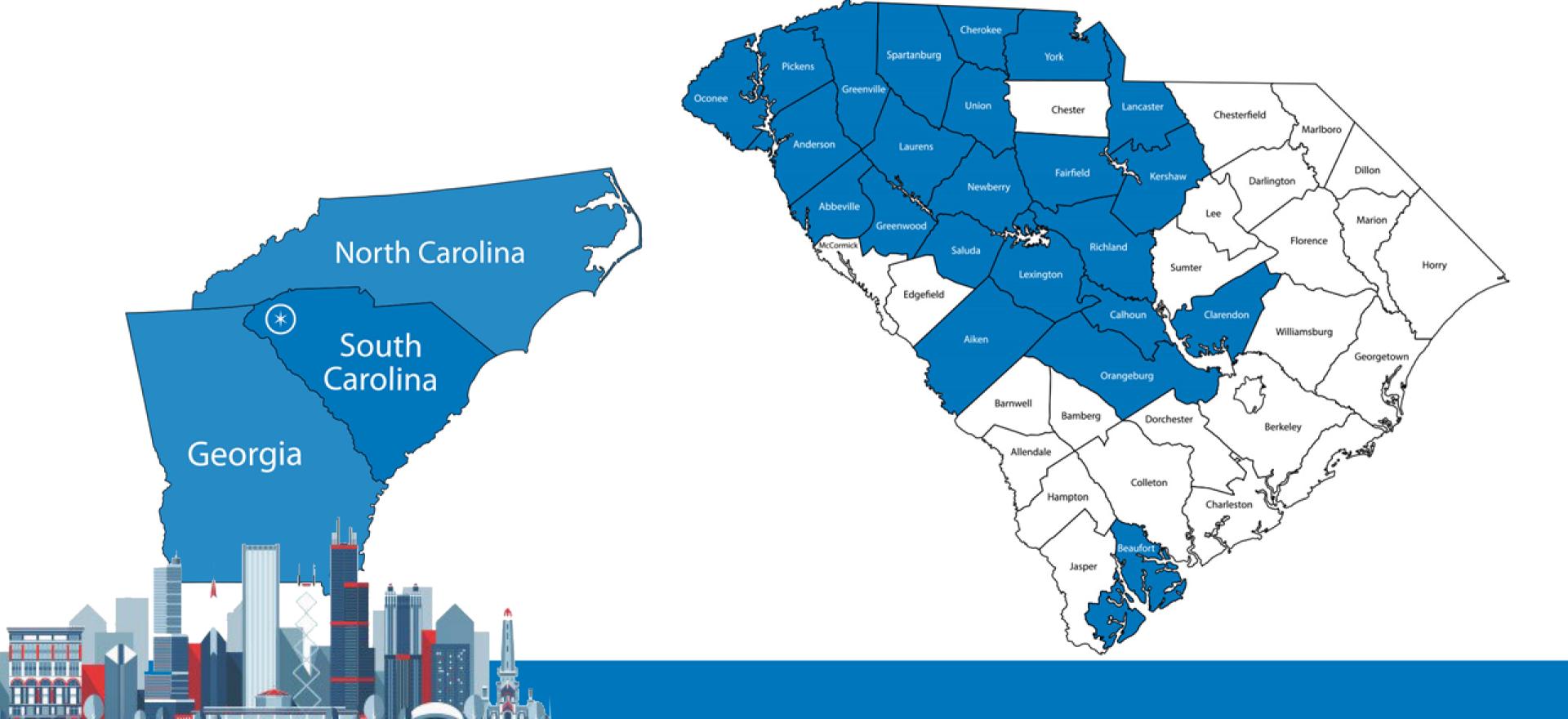


These learning environments allow us to offer more than 70 different on-site lessons, labs, and experiences in Science and Social Studies to more than 50,000 students annually





Our students come from 45 school districts in 23 South Carolina counties and 3 states.



And they all need to eat lunch every day



Employability Credential

Employability education - instruction, services, and supports that will prepare the student to attain a job after completion of the Employability Credential. Encompasses

- Career exploration
- Vocational education
- Functional skill development needed for the work place
- Focus on job-readiness skills
- May include Career and Technical Education programs & services

Readiness assessment Work - formal assessment (norm references or criterion referenced) that measures a student's skills set in relation to skills that are necessary for competitive employment in the community

- Complete a career portfolio that includes a multimedia presentation project
 Obtain work readiness assessment results that demonstrate the student is ready for competitive employment
- 360 Hours of Work Based Learning/Training Experience
 - School-based, community-based, and/or paid/unpaid
 - Must alight to student interest, preference,
 & post-secondary goals/IGP
 - Paid employment must be minimum wage or above







Training and Employment:

Roper Mountain Science Center Connections Café







Connections Café @ Roper Mountain Science Center

- 43 students have completed
- the program
- 5 currently assigned
- 14 have obtained the
- ServSafe certification
- 6 hired in FANS
- 1 Publix bakery,
 1 Prisma Cafeteria, 1 Harvey's,
 1 teaching assistant, 1 hired CC
- 3 Building Services









Skills to Learn

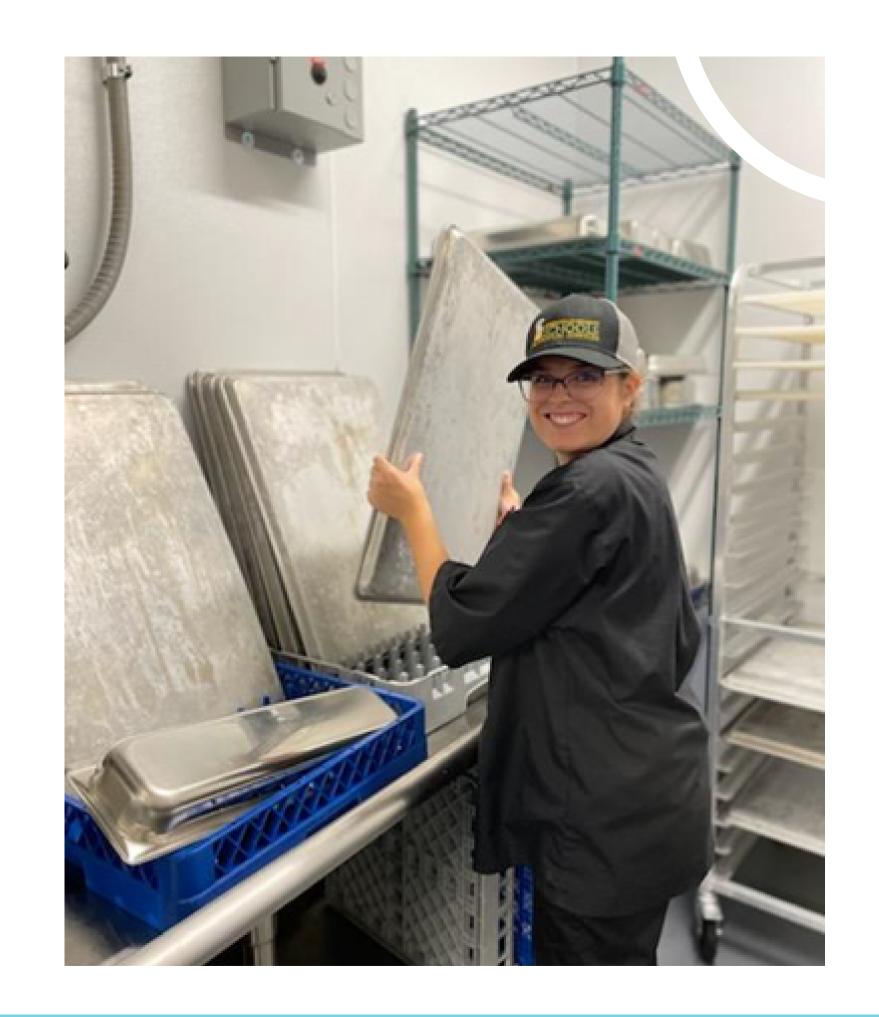
- Food Safety Procedures
- Proper Personal Hygiene
- Cleaning & Sanitizing
- Taking Temperatures
- Utilizing PPEs (Personal Protective Equipment)
- Culinary Skills
- Preparing Meals
- Cooking & Baking Items
- Knife Skills
- Importance of Teamwork
- Customer Service Skills



Food Safety

- Washing Hands& Proper Personal Hygiene
- Cleaning & Sanitizing
- Taking Temperatures of Food
- Using PPEs- Example, Gloves (Personal Protective Equipment)
- Storage of Food Items





Culinary Skills

- Preparing Sandwiches
- Preparing Grilled Cheese
- Prepping Fruits & Veggies
- Learning about Equipment
- Using Measurements
- Cutting Fruits & Vegetables
- Using Cutting Gloves
- Proper Usage of Knife
- Proper Storage of Product





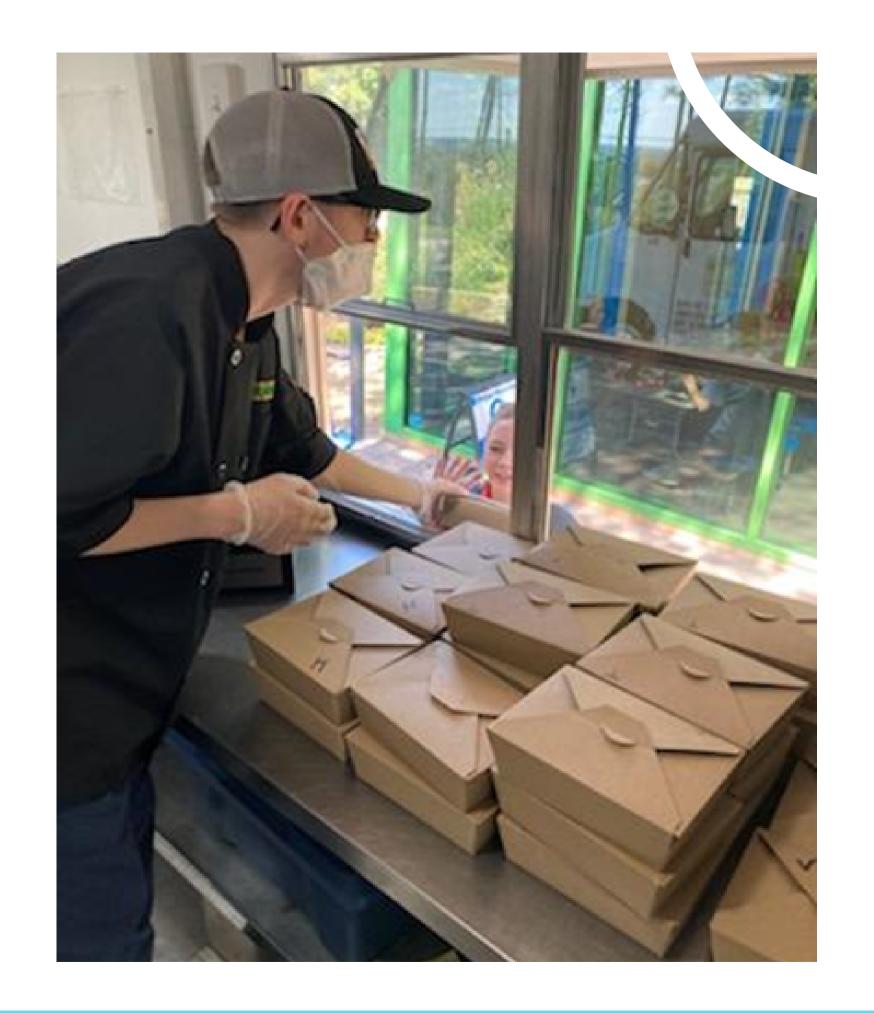




Customer Service

- Positive Attitude
- Friendly Service
- Fast Service
- Thank the Customer





Team Work

- Team Building
- Working Together
- Helping Each Other





Field Trips and Summer

- Serve between 500-750 meals daily for student field trips during the school year
- Serve between 500-900 meals daily free of charge during the summer

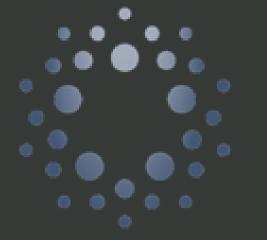






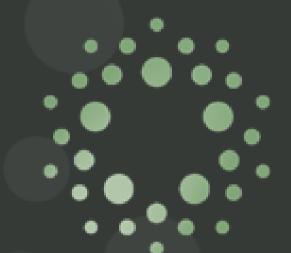






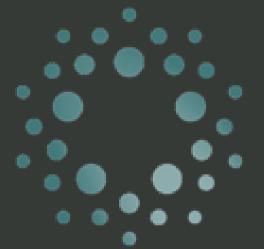
aerospace technologies

CTE INNOVATION CENTER



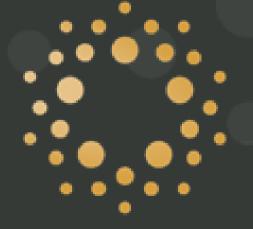
clean energy technology

ste inkovation center



automation and robotics

CTE INNOVATION CENTER



networking/ cybersecurity

CTE INVOVATION CENTER



emerging automotive research

CTE INNOVATION CENTER



Background Information:

- CTE Pathway Restructuring
 - High Schools All Pathways that can be feasibly offered at the school were moved to their respective high schools
 - Career Centers Pathways requiring specialized space
- Explore Workforce Needs
 - Partnership with Greenville Area Development Corp and Greenville Chamber of Commerce to determine greatest workforce development needs
 - Developed an initial list of potential programs
- Initial Advisory Roundtable Discussions -























SOUTH CAROLINA MANUFACTURING EXTENSION PARTNERSHIP























Green

















Hendtech LLC



















CTE Historical Background Information

Phase 1:
Shifting
applicable
CTE classes
to the High
School

Phase 2:
Restructuring
CTE Pathways

Phase 3:
Additional
programs at
our 4 Career
Centers

Phase 4:
Explore
Workforce
Needs

Phase 5:
Initial
Advisory
Roundtable
Discussions





Building Design

Development and Utilization of the Industry Advisory Committee

Curriculum Selection and Development

Program Sponsorships

Mentoring and Classroom Involvement





Fundamental Components

- 25 students per program
- Level 1 and Level 2 programming
 - Pathway for all students - Workforce
 - Technical college/Associates
 - College/University

Innovative and Future Focused

- 3 to 5 year life cycle of programs
 - Replication at centers/schools
 - Assess/Discontinue programs
- Seek Innovative CTE Programming



Aerospace 1
Fundamentals of
Aerospace
Technology

aerospace technologies

CTE INNOVATION CENTER

Aerospace 4

Astronautics Engineering Applications Aerospace 2

Advanced Aerospace Technology

Aerospace 3
Aeronautics
Engineering
Applications

- Project Based Learning
 - Engineering Design
 - Maintenance
 - Electrical Systems
 - Mechanical Components
 - Flight Calculations
 - Propulsion
 - Material Science

Course 1 **Advanced Technology** for Design & Production

Course 3

Mechatronic

Systems for

Advanced

Production

automation and robotics

CTE INNOVATION CENTER

Course 4 **Design for Production** of Advanced **Products**

Course 2 Advanced

Systems of **Technology** Project Based Learning Automated Process Robotic Arms

- o PLC
- o CAD
- Programming
- Mechatronic Systems
- Drives/Controls

Course 1
Automotive
Technology
1 Honors

emerging automotive research

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Course 4
Automotive
Technology
4 Honors

Course 2
Automotive
Technology
2 Honors

Course 3
Automotive
Technology 3
Honors

- Project Based Learning
 - Electrical Theory
 - Hydraulics
 - Breaking Systems
 - EV Technologies
 - Advanced Driver Assist Systems
 - Fuel Injections
 - HVAC/Coolants





OUR VISION

TO BE A PINNACLE OF INNOVATIVE LEARNING, AN ENGINE FOR COMMUNITY ENGAGEMENT AND A NATIONAL LEADER IN SCIENCE EDUCATION



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