Students Will Thrive

New Orleans Will Rise

Build a Better New Orleans Through Better STEM Education
Local Needs

We all know that South Louisiana faces a future filled with challenges. For too long our region has relied on too few industries. While energy and biomedical industries have long been core drivers of our economy, rapidly expanding science, technology, engineering, and mathematics (STEM) industries have led some to dub New Orleans “Silicon Bayou” and has resulted in industry job growth of more than 35% since 2012. This growth, along with a lack of STEM education and workforce training, is creating a workforce crisis and will result in over 15,000 unfilled jobs by 2022.

Local Opportunities

At the age of 300, New Orleans is both an old city with deeply rooted traditions and culture, and a modern city with booming STEM industries. This expansion creates high-demand, high-wage jobs, where the average annual individual income is often double the annual household income for other jobs in the city. This is a promising opportunity for our city and our young people.

Local Solutions

At the Foundation for Science and Mathematics Education we believe that New Orleans will rise when every New Orleanian can contribute to our well-being and innovation through the tools of math and science. Therefore, we work tirelessly to ensure that students thrive in publicly accessible high-quality STEM education and workforce training programs.

Sci High Students Thrive

Serving New Orleans since 1993, The New Orleans Charter Science and Mathematics High School – affectionately known as Sci High – sparks students’ passions and opens doors of opportunity through innovative STEM programming. It is a special place where students imagine the possibilities, design pathways to their futures and build the skills to become the next generation of scientists, technicians, engineers and medical professionals.

Thriving Scholars, Rising Leaders

• Digital technology students won the top 2019 LA Film Prize Junior for their original short, “Like a Ship Without a Sail.”
• Sci High’s 2019 Competitive Robotics Team won the regional Rookie Seed Award and the Rookie All Star Award, qualifying them for the World Robotics Competition.
• 25 Sci High students, more students than any other school, participated at the 2019 GNO Science and Engineering Fair; 19 students were awarded.
• Students earned 384 industry-based credentials (IBCs) in 2019, ensuring that they are competitive in the college application process and job market.
A School Like No Other
Sci High, an open-admission public school that prepares students for college and career success, is the recognized leader in STEM education and workforce training. It is the only non-selective STEM high school in our region, specifically founded and designed to meet the unique needs of an underserved population.

Explore High-Wage, High-Demand Careers
Sci High students discover a wide array of STEM careers in some of the fastest growing industries in New Orleans. They explore their passions through hands-on, project-based coursework; real-world work experiences; and STEM enrichment programs. Sci High’s STEM Academic Concentrations culminate in opportunities to earn IBC’s, giving students a competitive edge in the college application process and the job market.

Sci High’s STEM Academic Concentrations

Design Pathways to the Future
Sci High works purposefully with each student to make students’ futures look like their dreams. Whether navigating the challenging college admission, scholarship and financial aid application processes or discovering their niche in the multitude of post-graduation workforce options, faculty members work side-by-side with students to simplify the complex landscape.

Build Skills Required for College, Career and Life
Graduates may choose to go to college, join the workforce full-time or work part-time in well-paying positions while attending college. Therefore, Sci High’s unique structure ensures that all students develop employable technical, soft and life skills as they prepare for college and career dreams – at the same time.

College Preparation. Sci High’s AP class offerings and “Dual Enrollment” enable students to experience the rigor of college coursework, receive college credit and expand their academic horizons. Outstanding humanities, Project Lead the Way, and Student Research Teams prepare students as they discover new areas of study and academic passions. Comprehensive college counseling and college visits encourage students to open doors to new experiences and envision the possibilities for their future.

Workforce Preparation. Sci High’s Career Technical Education is the most robust in the city. Programs include student internships, pre-apprenticeships and ACE National Mentoring Program. These programs build students’ professional networks and provide the real-life landscape to develop valuable professional and soft skills. Other programs include, makerspace, robotics, film making, computer programming, carpentry and more.

Life Preparation. The Sci High experience is flush with opportunities for student leadership, as well as emotional development and community engagement. Sci High graduates are well-rounded citizens who lead with integrity and a sense of community responsibility in all pursuits.
Making Research Cool

Student researchers Tia and Tamara wanted to tackle a project that “no one had ever done before,” said Tamara. After learning that bats in Louisiana, and across the globe, were dying off at an alarming rate, the students had an idea for a meaningful research project to study the impact of weather events on the behavior of bats. Their ultimate goal: To save the bats!

Motivated by their research experience, which earned them a 2nd place finish at the GNO Science and Engineering Fair in 2019, the students launched Sci High’s Student Research Team. The team has become a student favorite. “We make bats cool!” Tamara beamed.

In the summer of 2019, the team embarked upon 4 days and 3 nights of field research in the Louisiana wetlands. This unique experience opened doors to new opportunities. “I didn’t even know there were bats here. It’s been an eye-opener. A learning experience outside of the normal. I was able to go to the swamps and see actual bats,” said Tia.

So, what’s next for the team? “We’re going to publish!” declared Tia. We are excited to watch as Tia and Tamara make a big impact at Sci High, in their community and on our ecology!

Challenging and Supportive

Sci High is available to all students in New Orleans interested in exploring the wonders of science, technology, engineering and math, regardless of previous test scores, documented academic ability, or special education status. The result is a hard-working, dedicated community of young scholars from every neighborhood in our city with diverse passions and needs.

Students are met with the academic, social and emotional support programs in an enriching and supportive environment that is challenging, safe and nurturing.

Exceptional Children’s Services. ECS ensures a school-wide culture that respects the dignity, challenges, strengths and interests of each student. More than 23% of Sci High students receive services from ECS in a fully inclusive environment.

The Great Space. This unique space is available to all students for those times when they need a supportive and nurturing environment to manage the inevitable challenges of adolescence. Here, students have access to supportive adults who focus on stress-reduction, as well as strengthening social and self-management skills.

The Learning Lab. This is the latest innovation designed to provide students who require additional academic support for success in Sci High’s rigorous curriculum. Students may self-select or be assigned to use the Learning Lab for intensive instruction, small group testing or just a quiet place to work and learn.

S.M.A.R.T. Clubs. The Students Maximizing Achievement, Relationships and Time (SMART) program gives students access to more than 30 enrichment activities. In addition to Student Government and after-school tutoring, students choose from a wide variety of clubs, including everything from skateboarding and guitar to yard games and journalism. Sci High also offers a variety of after school programming and athletics, including robotics, Electric Girls, drumline, basketball, volleyball, soccer, flag football, dance team, majorettes, cheerleading and color guard.

* Amaya
  Class of 2021
  Student Body President

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- Johnette Hassell
- Stephanie Graznak
- Antonio Haynes
- Pam George
- Google Inc.
- Deena Gerber
- Patti Golden
- Johnette Hassell
- Kiron Golden
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- Michelle Antle
- Margaret Armstrong
- Nic Aziz
- Toni Bachmann
New Orleans Will Rise
At the Foundation for Science and Mathematics Education we believe that it takes our entire community to solve the region’s challenges.

Therefore, we work tirelessly with our partners to spotlight success and needs at Sci High in order to attract the right resources at the right time. We build STEM-industry networks to ensure that Sci High’s curriculum is industry-relevant and to provide real-life workforce learning experiences. We raise financial support to close the funding gap between public funds and the real cost of providing Sci High’s unique, innovative education.

“Sci High goes beyond traditional education to offer opportunities for real-life workforce training and hands-on learning that prepares every student to be a valuable contributor to the industries that power our region’s economy and build our community.”

Curtis Pellerin
Vice President, FSME
President, Pellerin Laundry Machinery

Sci High Is Where She Found Her Passion
Since she was a child, Patrinika has had a passion for helping others. As a Sci High freshman, she found that the medical field was the perfect fit for that passion. “It happened in bio science class when my teacher suggested that I do an internship to explore the medical profession. I did my first internship the summer after my freshman year at Touro Infirmary. I loved it and nursing stuck with me,” Patrinika said.

During her four years at Sci High, Patrinika completed three internships in the medical field. She credits the encouragement of Sci High faculty for those internships, for landing the prestigious Posse Scholarship in 2019 and for her eventual acceptance into Case Western University, where she is currently a nursing student. “I absolutely love that I’m a part of Posse!” she exclaimed. “Without my Sci High experience, I wouldn’t have been in Posse...I probably wouldn’t have been able to attend such an outstanding university.”

The 18-year-old has been dedicated to finding a cure for cancer since her Sci High science fair project, when her dad was suffering from cancer. “I wanted to know more information about cancer so that I could help him, and so that I could understand what he was going through,” Patrinika recalls. She would go on to take the project to the state science competition!

Patrinika’s father lost his battle with leukemia in October 2018. However, she knows he’s watching her and that he’s proud of everything she’s accomplished. “He wanted me to go to college because he and my mom weren’t able to. I’m really proud that I’m making him proud,” she said.

How Can You Help?
With your partnership, Sci High students will thrive and our city will rise. Together, we will build the next generation of critical thinkers and problem solvers in these industries, dramatically increase students’ lifetime earnings and prepare them to play a leading role in New Orleans’ future.

New enrichments programs  8
New Career Technical Education Courses  14
New 3D printers  5
Teachers received professional development  10
Industry-based credentials  12
Student internships  101

Make your donation today to open the doors of opportunity to the children of New Orleans.

- Laura Baker
- Guenter Bischof
- Marcus Bischof
- Nicholas Bobo
- Deirdre Boling
- Julie Bourgeois
- Regina Brinser
- Eboni Brown
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- Samantha Sher
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- Ian Simonon
- Caroline Snyder
- Gregory Stein
- Lucy Stroschine
- Taylor Wells

Patrinika
Class of 2019
Freshman, Case Western University

Solving Challenges Together
Thank you! In 2018, your donations provided high quality STEM education and workforce training to more than 478 students!
A School For The Future
Imagine a world-class STEM high school right here in New Orleans. A special place where doors are opened for children to explore and pursue passions that will propel the city’s economic engines into overdrive. Over 15 years ago, this dream was envisioned. Together, we are turning this dream into a reality!

It is now time for Sci High to embark upon a new chapter, one where the school finally has a permanent home in a facility near the New Orleans BioDistrict that matches up to the transformative learning experiences that are happening within its walls.

“WE ARE EMBARKING UPON AN EXCITING CHAPTER OF OUR HISTORY. SCI HIGH IS POISED TO ACHIEVE GREAT THINGS IN THE COMING YEAR. WITH YOUR PARTNERSHIP, WE ARE BUILDING A WORLD-CLASS MODEL FOR STEM EDUCATION.”

Jennifer Fallon
Chair, The Advocates for Science and Mathematics Education

Building Highlights
• Located near New Orleans BioDistrict
• Fully equipped labs for Engineering, Digital Graphics, and Bio-Medical utilizing modular stations for flexible instruction
• Over 4,500 square feet of Advanced Technology classroom space
• Over 2,000 square feet of open-air makerspace
• Expanded special education classrooms and resource centers
• A hybrid gymnasium and auditorium – the first in the school’s history – with versatile staging area for performances and presentations
• State-of-the-art Visual Arts & Media Centers
• ADA-compliant and LEED-certified Silver

Mr. Derek Rankins
African American History Teacher, Sci High Alumnus, Class of 2009

Delia
Class of 2022

Exciting News!
The Foundation for Science and Mathematics Education (FSME) has been approved for $3,000,000 in Louisiana State Capital Outlay Funds. There funds will purchase professional grade equipment and transform the building into a world-class facility. In 2018, FSME launched a $1,000,000 capital campaign to raise the matching funds required to access these state funds. Your support has propelled our success beyond our expectations!

MAKE AN INVESTMENT TODAY TO BE A PART OF THIS EXCITING PROJECT.

Together, We Make Good on Our Promise
Your campaign investments will enable Sci High to increase enrollment by 38% to serving a greater number of students in compelling new ways. Together, we will transform Sci High into a school with cutting-edge capabilities and the capacity to elevate the school’s programmatic and curricular offerings to unprecedented heights.

Our Campaign Supporters
$250,000+
- Patrick F. Taylor Foundation
- $249,999 - $200,000
- Rosa Mary Foundation
- $199,999 - $100,000
- Dr. Barbara Beckman
- Georges Lurcy Charitable & Educational Trust
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- Dr. & Mrs. Dedrick Sims
- Dr. Cat Wong
<table>
<thead>
<tr>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$100</td>
<td>Provides seed money for a new student club</td>
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<tr>
<td>$500</td>
<td>Offsets the cost of student transportation for inspiring STEM-relevant field lessons to NASA, Laitrim, and Delgado Career Expo</td>
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<tr>
<td>$1,000</td>
<td>Underwrites the Student Research Team's summer research experience at the Louisiana University Marine Consortium</td>
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<tr>
<td>$3,000</td>
<td>Compensates 2 students, who cannot afford to work without pay, the opportunity to benefit from Sci High's Student Internship Program</td>
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<tr>
<td>$5,000</td>
<td>Finances fabrication and programming materials to the Sci High award-winning Competitive Robotics Team</td>
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<tr>
<td>$10,000</td>
<td>Gives students access to industry-based certification testing in Adobe Premiere Pro, Inventor and Revit</td>
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<tr>
<td>$20,000</td>
<td>Equips 2 STEM science labs with state-of-the-art, professional grade equipment</td>
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