BOUNDLESS
SCHOOL OF SCIENCES AND MATHEMATICS
BOUNDLESS is the promise of our students, the distinction of our faculty and the enduring spirit of our supporters, friends and alumni. BOUNDLESS represents the next era of the School of Sciences and Mathematics at the College of Charleston.

Over the past century, the impacts of discoveries in science and mathematics have been staggering - advancing knowledge, processes and products that have radically improved our lives and benefited societies around the globe.

Whether in the fields of biochemistry, data science or environmental quality, the School of Sciences and Mathematics is at the forefront of discovery. Our faculty and students team up in the laboratory and classroom as trailblazers - each day showing us that the search for new knowledge has no boundaries. Together, they discover new extra-solar planets, search for cures for cancer, design mobile and web applications and develop strategies to conserve water and ensure it is safe for human consumption.

This combination of dedicated faculty and engaging undergraduate research has distinguished the school on a regional and national scale. Today, we are a leader in producing geology and physics graduates in the Southeast. Our computer science department has built relationships across the country with the high-tech industry that offers student internships and career pathways. And every year, roughly 130 of our graduates continue on to medical and other allied-health programs. Our alumni embody the school’s mission as they devote their lives to improving human health.

Given this momentum, now is our time to push beyond conventional pathways to knowledge, beyond the limits of our campus footprint and beyond our very own expectations.

Now is our time to build a bolder, ever-stronger College of Charleston.

Marine biology professor Eric Sotka and his undergraduate students are studying the decorator worm/seaweed relationship as part of an extensive research project on invasive species and their impact on Lowcountry ecology.

BOUNDLESS: The Campaign for the College of Charleston is a $125 million comprehensive fundraising initiative and your opportunity to shape the next era of science education.

BOUNDLESS will create a bold new future for the School of Sciences and Mathematics. It will ensure our students continue to receive personalized undergraduate instruction with a unique complement of laboratory and field courses. It will also fuel our commitment to meaningful graduate-level research opportunities for our undergraduates and distinguished faculty crossing disciplines in the name of discovery and innovation.

BOUNDLESS is the vehicle to achieve our vision with investment in five strategic priorities:

1. COMPETITIVE SCHOLARSHIPS to attract and support the next generation of exceptional students;
2. WORLD-CLASS FACULTY who inspire greatness in our students, including endowed chairs in computer science and undergraduate research;
3. DISTINCTIVE ACADEMIC PROGRAMS unique to studying sciences, math and technology in the context of a collaborative liberal arts environment;
4. STATE-OF-THE-ART FACILITIES with enhanced software, technology and equipment; and
5. THE DEAN’S EXCELLENCE FUND, which has an immediate impact on education and allows the school to seize opportunities for innovation as they emerge.
The Power of Partnership

Moving boldly forward while preserving our distinctive identity will require your dedication and partnership. As federal and state support for higher education declines, our success requires philanthropy.

By uniting the power of your generosity with the potential of the School of Sciences and Mathematics, our graduates will grow, adapt and lead in these rapidly evolving, technology-dependent fields as they emerge. You can shape the next era of STEM (science, technology, engineering and mathematics) education at a time when the importance of educating students to be creative and innovative in their pursuits has never been more critical.

We invite you to partner with us. Together, we can support the students and world-class faculty who will lead us forward.

“STEM students are faced with extensive laboratory classes and research experiences that put heavy demands on their time. As a consequence, they generally have little time for outside employment. Scholarships and research fellowships are critical to recruitment and retention in these fields.”

— Dean Michael J. Auerbach

Summer research stipends ensure a steady flow of well-prepared professionals graduate ready to take on the scientific challenges inherent in a global economy.
The intellectual curiosity of students who study computer science, math and science are crucial to our shared future. These students are the human capital at the core of any productive economy. Yet today, there are far too few students obtaining college degrees in these disciplines.

BOUNDLESS will support both endowed and current-use scholarships so all students have the opportunities to reach their full potential in STEM fields. At the same time, it will expand support for students from underrepresented populations, such as women and minorities.

Summer research stipends, internships and fellowships for our students will ensure a steady flow of well-prepared professionals graduate from the College – ready to take on the scientific challenges inherent in a global economy.

“My summer research fellowships have been critical to my success at the College. They will get me where I want to be, which is in a leadership role at NASA.”

- Angela Dapremont ’14

Our professors are much more than stellar teachers. They are research partners, mentors, knowledge creators and innovators. They pull multiple disciplines together to solve problems, create new interdisciplinary majors and minors, integrate technology into traditional teaching methods and apply the knowledge they create to solve real-world challenges. Each year, many of them publish a number of books, research papers and scholarly articles and receive national and international recognition.

In order to recruit and retain innovative faculty who are on the forefront of their disciplines, BOUNDLESS will also support faculty endowment, research and travel stipends, as well as equipment funds. Opportunities for endowed professorships in the School of Sciences and Mathematics include computer science, undergraduate research, environmental studies, natural resource management and sustainability and chemistry.
DISTINCTIVE ACADEMIC PROGRAMS

As the success of our students and alumni illustrates, our undergraduate program prides itself on academic rigor, innovation and career-affirming experiences that prepare our graduates for professional careers. Our goals for the future include a commitment to enhancing teaching and research linkages with the private sector and encouraging tech transfer and entrepreneurship.

BOUNDLESS will directly enhance the student experience in the sciences, mathematics and technology with support for:

1. DEVELOPMENT OF NEW INTER-DISCIPLINARY, INTER-SCHOOL AND INTER-INSTITUTIONAL COLLABORATIONS, such as neuroscience and computing in the arts, in which students learn programming skills along with skills in the visual arts, music composition, movie production and stage and set design.

2. SUMMER UNDERGRADUATE RESEARCH STIPENDS that support research projects facilitating mastery of techniques and protocols needed for scientific advancement.

3. COMPUTATIONAL INFRASTRUCTURE to meet the growing industry-wide demand in computer programming, software engineering and coding. We also strive to be at the cutting edge of rapidly changing fields such as computer information systems. For example, in the pervasive field of data science our students interpret data points on timely issues most relevant to our lives—from traffic patterns to health care industry trends.

Whether you support stipends for undergraduate research, technology upgrades or new program development, your gift directly supports the student experience in the science discipline of your choice.
The field studies program is a vital component of experiential learning in the School of Sciences and Mathematics. Every summer, geology students travel west to explore land formations in Utah, Arizona and Nevada.
“The students in this lab are part of the Howard Hughes Medical Institute-funded SBE Phages program. We move these students farther faster by introducing them to research, connecting them to the research community in the biology department and by giving them the opportunity to see what it is like to be part of the wider scientific community.”

- Chris Korey, professor of biology

Students and faculty do their best work in facilities and spaces that have the best equipment and layout to support the needs of their disciplines. We want all of our students to be trained in state-of-the-art facilities with cutting-edge equipment in small classes. Yet the disciplines within our school are ever changing, and we must keep pace with advancements in technology, equipment and software to ensure we are training our students to succeed in these leading-edge fields. To stay on the forefront of education and research, requires continual investment in infrastructure and equipment.

Opportunities exist to support updates to our teaching and laboratory space in Rita Hollings Science Center & Physicians Auditorium and a new astronomy observation deck for students and the local community. BOUNDLESS also supports research and discovery facilities for our computer science department and laboratories for our students and faculty to engage in marine biology research at Grice Marine Laboratory.

“A new Grice Marine Laboratory building would provide advanced research and teaching capabilities, a hub for our graduate program, and better accommodations for visiting students and scientists.”

- Bob Podolsky, director of Grice Marine Laboratory

Through annual giving, everyone can be a philanthropist to the College of Charleston. Gifts to the Dean’s Excellence Fund are a vital source of institutional momentum for the College, providing funding for scholarships, supporting great faculty and undergraduate research programs and creating new academic experiences.

Dean’s Excellence Funds go to work immediately to meet our most critical needs and priorities, provide flexibility for our faculty and administrators to seize opportunities when they emerge and create national and international exposure for our school. This is especially critical given the need for continual computational infrastructure enhancements and modernized laboratory spaces to provide students with the most up-to-date and relevant learning and research experiences.

For our alumni, parents and friends, the Dean’s Excellence Fund is the ultimate vote of confidence in everything the School of Sciences and Mathematics stands for and everything it will become.
JOIN US.

Everything the College of Charleston School of Sciences and Mathematics has done in the past leads up to this moment. During this past year we have added wonderful new faculty, advanced planning for renovated and new buildings, secured a record amount of federal grant funding and, most importantly, watched our students tackle the rigors of learning and “doing” science and math with tremendous success. Your campaign gift will build on all of this success and ultimately support an academic program that is designed to prepare our students to become the next generation of innovators, discoverers and explorers.

Now it is time to take our excellence to the next level – and we need your help to get there.

Your investment in the very best facilities and spaces, equipment, technology, academic support and leadership is crucial to nurturing the growth and talents of our young men and women. Your gift will be an investment in the next generation of computer scientists, chemists, biologists, physicists, mathematicians and geologists, as well as in the College of Charleston family, and in the future of math and science education.

With boundless enthusiasm,

Michael Auerbach

MICHAEL J. AUERBACH, DEAN