



## 2019/2020 FUNDRAISING PRIORITIES

### A. Discovery through Research

A demonstrated high-impact practice that dramatically improves the student experience is undergraduate research, either during the academic year or as a summer experience. The opportunity for students to conduct research, acquire and analyze data, and communicate their findings can be transformational in their development as scientists. These experiences typically require resources that include student stipends, laboratory supplies, and faculty support. Currently, the College of Science provides such research experiences as part of externally funded programs from agencies such as the National Science Foundation (NSF) and National Institutes of Health (NIH), including NSF CAMPARE/Cal-Bridge, NSF LSAMP, and NIH RISE. Philanthropic support would enable more students to have such impactful research experiences that can transform their educational and career pathways. This past year we obtained funding for six "Discovery through Research" projects in biology and computer science focused on specific faculty projects with students.

### B. Student Scholarships

Over 75 percent of our student body receive some form of financial aid. In the College of Science, several students have financially challenging situations and scholarship assistance helps alleviate barriers to their education, allowing them time to focus on their studies and career aspirations.

### C. Science for All

The Center for Excellence in Mathematics and Science Teaching (CEMaST) is the central hub through which the College of Science promotes effective STEM teaching and learning at all levels. Its mission is to promote, practice, and study research-based practices in science and mathematics education to enhance teaching and learning in our community.

- **Prete Fellows** – By fourth grade elementary school students have already decided whether they like science and whether they feel smart enough to pursue a career in science. CEMaST is making a difference in early science and math teaching through partnerships with local schools. In 2018-19 CEMaST directed the second year of Prete Fellows which placed (15) CPP Fellows with teachers at Kellogg Polytechnic Elementary (PUSD) and (15) CPP Fellows with teachers at Armstrong Elementary (PUSD). The Fellows provide up to 10 hours a week of support to the teachers where they co-teach science lessons that integrate the school garden as a laboratory. This impactful program has obtained a commitment for a third year of funding for the 2019-20 school year to extend the program into three schools and we look forward to securing funding for future years.
- **CS for All** and **IgniteCS** – Currently, 70% of new STEM jobs are in computing and only 8% of STEM majors are in Computer Science. There is a nation-wide CSforAll Consortium that works to enable all students in grades K-12 to achieve computer science literacy as an integral part of their educational experience. Computer Science and CEMaST are partnering to fulfill a great need in the job market. The CSforAll initiative at CPP would train local K-12 teachers to help them prepare their students, look for resources to develop new curricula, provide summer training institutes, and establish a *discovery* lab in the CS department.

If you are interested in supporting the College of Science,  
please contact Melissa Martinez, Director of Development at  
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