

Imagine classrooms, each with 5 STEM professionals engaging children in authentic, hands-on science activities, every month of the school year, every year of the student's elementary school career. Invite strong role models, diverse in gender, race, and STEM expertise, united by their caring for children and a desire to excite the next generation of scientific thinkers, to supplement and support your classroom learning. By partnering with **Science is Elementary** you create opportunities for more experiential learning, meaningful relationships with caring mentors and deeper understanding of NGSS concepts. By working with **SiE** you leverage the intellectual capital of the Bay Area to the advantage of your students and expand classroom teachers' exposure to scientists and the latest in science pedagogy. Every child, not just those who can afford extracurricular experiences, deserves respectful, attentive, accurate science instruction. With **SiE** they get that, along with a great child to adult ratio (1:6), and inter-generational learning opportunities, both with adult scientists, engineers and mathematicians as well as with students of different ages through facilitated collaboration and learning between younger and older students.

**MAKE YOUR SCHOOL
A PLACE WHERE
SCIENCE IS ELEMENTARY!**



"...real impact in opening young minds to the possibilities in STEM careers comes from sustained engagement over a longer period of time."⁴

¹ Bradberry, National Center for Women & Information Technology, NSF (http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=133580&org=NSF)

² Cooperative Learning Center at the University of Minnesota (Johnson, Maruyama, Johnson, Nelson, & Skon, 1981)

³ 2014, The Mentoring Effect, Young People's Perspectives on the outcomes and Availability of Mentoring, The National Mentoring Partnership

⁴ Himanshu Jain, professor of materials science, Lehigh University National Science Foundation website 2015

OUR VISION:
ALL CHILDREN KNOW
THAT **SCIENCE IS AWESOME**
AND USE ITS PRINCIPLES TO
BETTER THEIR LIVES



"**Wonder** is the
beginning of **wisdom**."

SOCRATES



"**Girls** represent a valuable,
mostly untapped, talent pool,
and their **lack of participation** has
serious consequences for the
future of technical innovation."¹



"In the long history of
humankind (animal kind too)
those who learned to **collaborate**
and **improvise** most effectively
have prevailed."

CHARLES DARWIN



"We become what we behold.
We **shape our tools**, and
thereafter our **tools shape us**."

MARSHALL MCLUHAN



"An analysis of 122 studies
on **cooperative learning**
revealed more students learn
more material when they
work together...they are more
motivated and are more positive
about the subject...the teacher
and themselves as learners...and
are more accepting of each other
(male or female, handicapped or
not, bright or struggling, or from
different ethnic backgrounds)
when they work together."²

"**45% of at risk youth** with
mentors are in enrolled in
post secondary education
as opposed to 29% who
never had a mentor."³