

Igniting A Passion for Science, Technology, Engineering and Mathematics

“The U.S. will have more than 1.2 million job openings in Science, Technology, Engineering and Mathematic related fields (STEM) by 2018.

“We must do a better job of engaging students and encouraging and exciting them to pursue careers in STEM – related fields.”

—U.S. Department of Labor



San Diego's New Central Library.

Inspiring the Next Generation of Scientists, Engineers and Innovators

The Library excites young minds about science and engineering futures. Free Library tutoring, after-school programs and resources fill a significant gap in STEM achievement, especially for parents who cannot afford Internet access or enrichment classes.

- There are **37 K-to-12 schools located within two-and-a-half miles** of the New Central Library. More than 10,000 students are expected to visit the Library each week.
- A pilot Library program for **4th through 6th graders**—*Scientists and Engineers of Tomorrow Group*—features science and math games, guest lectures and hands-on science activities. This pilot will be replicated and expanded at the New Central Library.
 - To encourage young people to pursue careers in science and engineering, lectures feature practicing engineers and scientists discussing their work. Presenters have included NASA engineers, UCSD professors, paleontologists, astronomers and archeologists.
- Free tutoring connects students to live, expert tutors via the Internet. Requests for **assistance with math and science homework account for 74 percent of student tutoring sessions**—critical subjects for students hoping to pursue science and engineering careers.
- An innovative charter high school on the Library's sixth and seventh floors will also serve 500 students annually, preparing them for college and careers.
- New Central Library spaces and programs will ignite math, science and engineering interest:
 - A 350-seat auditorium will regularly host science lecture series.
 - A state-of-the-art Technology Training Center to teach the use of the latest technologies.
 - A spacious Teen Center with specialized collections, staff and programs for young science students.
 - ❖ Tech training/play area with Wii, Xbox and other gadgets.



Attracting more than 10,000 students weekly, the New Central Library will inspire future scientists and engineers with exciting programs and resources.
