Nomination Guidelines

Summer Engineering Institute

The Summer Engineering Institute is a two-week residential summer camp at San Francisco State University designed to provide real-world context to the study of engineering through practical, applied and hands-on problem solving and design-oriented projects.

Participants engage in studies of the major fields of engineering including civil, computer, electrical, and mechanical engineering as well as topics on mathematics, robotics, computer programming, renewable energy, and computer-aided design. Daily activities include classroom instruction, group and individual study, guest speakers, company tours, and recreational activities.

The participants are divided into groups and each group is responsible for completing an engineering project. All materials and instructions are provided. Participants present their final engineering project in written and oral form to an Evaluation Committee. Awards recognizing student efforts are presented at the Institute's Closing Ceremonies.

During the two-week period, participants will be housed at San Francisco State University's residential apartments. Living quarters are appropriately designated for male and female students.

Transportation to SFSU at the beginning of the program and from SFSU at the end of the program will be the responsibility of the participant.

All meals are provided, with accommodations for special dietary needs.

SEI 2016 is at San Francisco State University from July 10-22, 2016.

Eligibility Requirements:

Academic Classification: High school students who are currently sophomores and juniors (i.e., juniors and seniors in Fall 2016);

Minimum GPA: 3.0 (We would like participants to have a minimum 3.0 GPA but understand that students sometimes face unexpected obstacles; you will have a chance to explain in the nomination application any extenuating circumstances you know of that have affected this student’s GPA);

STEM Interest: Demonstrated interest in STEM (Science, Technology, Engineering or Math) fields of study or careers;

Personal Attributes: Each candidate must possess at least three of the following four attributes:
- Academic excellence
- Self-Motivated, engaged and on-task
- Able to work in teams
- Maturity needed to participate in a 2 week residential program away from home.

The process by which your school/organization selects its STEM Institute nominees is entirely up to each school/organization, as long as the student(s) selected meet(s) the criteria above.

*Students in MESA, AVID, Upward Bound and other similar programs are strongly encouraged to apply.