



2024 ACE Mentor San Diego Scholarship Application

The **ACE Mentor Program** is an after-school program designed to motivate high school students toward architecture, construction management, and construction-related engineering careers. Since 1995, ACE has been opening students' minds to the possibilities available to them in these careers by engaging them in year-long design projects with professional architects, construction managers, and engineers. By working with the Mentors in the classroom, students are able to see and experience first-hand the world of the building design and construction professional.

The ACE Mentor Program wants to see all students succeed in achieving their goals. We are excited to offer individual scholarships to eligible Juniors & Seniors planning to pursue college majors related to the A.C.E fields.

The scholarship funds will be disbursed directly to the student when all requirements have been met. All funds must be used within the five (5) year time period following the date of the recipient's graduation from high school. Upon the expiration of the time period, any unused scholarship funds will no longer be available to the scholarship recipient.

2024 SCHOLARSHIP APPLICATIONS OPEN UP ON FEBRUARY 5th AND ALL APPLICATIONS AND MATERIALS ARE DUE: APRIL 12th.

Eligibility: Candidates for the ACE Mentor Program's Scholarship Program must participate for at least one entire year (Spring/Fall) in the ACE Mentor Program and, must have registered at ACEMentor.org to be eligible AND plan to enroll full-time in an undergraduate major related to architecture, construction management, or construction-related engineering or related fields as approved by the Scholarship Committee.

1. All applications must be done online at www.acementorsd.org
2. Eligible candidates must submit all of the following materials:
 - Online application and two 500-word essays from the four topics.
 - An official academic transcript. Email transcripts to the ACE Scholarship Committee at: alawrence@dyna-sd.com



Due date: The student is responsible for submitting the complete application package by 5:00 pm, **Friday, April 12, 2024** - no exceptions.

Scholarship recipients will be announced at the Scholarship awards program scheduled for **in May at the Student Showcase End-of-Year Celebration event at SDSU.**

Note: The NewSchool of Architecture and Design is offering 2 Scholarship opportunities:

1. \$25,000 for Architecture Majors (\$5K per year for 5 years discounted off tuition fee)
2. \$20,000 for Construction Management Majors (\$5K per year for 4 years discounted off - tuition fee). See [NewSchool's website](#) for more details on deadlines and how to apply.

ACE MENTOR LIST OF MAJORS FOR SCHOLARSHIP RECIPIENTS

1. Architecture: The process and the product of planning, designing, and constructing buildings or other structures. Architectural works, in the material form of buildings, are often perceived as cultural symbols and as works of art.

2. Architectural Engineering: Also known as building engineering, this is an engineering discipline that deals with the technological aspects and multi-disciplinary approach to planning, design, construction and operation of buildings, such as analysis and integrated design of environmental systems (energy conservation, HVAC, plumbing, lighting, fire protection, acoustics, vertical and horizontal transportation, electrical power systems), structural systems, behavior and properties of building components and materials, and construction management.

3. Civil Engineering: A professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, canals, dams, airports, sewerage systems, pipelines, structural components of buildings, and railways.

4. Construction Management: A professional service that provides a project's owner(s) with effective management of the project's schedule, cost, quality, safety, scope, and function.

5. Construction Trades (vocational): Electrician, HVAC, Plumbing, etc.

6. Construction Technology: On the forefront of creating new applications and tools that are changing how the construction industry designs, plans and executes its projects. These advanced software and construction-focused hardware will help shape the industry for decades. • *Must have focus on one of the ACE disciplines*

ACE Mentor San Diego

PO Box 178681 | San Diego, CA 92177 | 619.642.2012 | info@acementorsd.org | www.acementorsd.org
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7. Electrical Engineering: An engineering discipline concerned with the study, design and application of equipment, devices and systems which use electricity, electronics, and electromagnetism.

8. Environmental Engineering: A professional engineering discipline and takes from broad scientific topics like chemistry, biology, ecology, geology, hydraulics, hydrology, microbiology, and mathematics to create solution that will protect and also improve the health of living organisms and improve the quality of the environment. • *Must have focus on one of the ACE disciplines*

9. Geotechnical Engineering: A specialization within civil engineering that involves investigating and understanding what is beneath the ground's surface. Geotechnical engineers figure out the impact that geological formations may have on construction projects.

10. Interior Design: The art and science of enhancing the interior of a building to achieve a healthier and more aesthetically pleasing environment for the people using the space.

11. Landscape Architecture: Includes site analysis, site inventory, site planning, land planning, planting design, grading, storm water management, sustainable design, construction specification and ensuring that all plans meet the current building codes and local and federal ordinances.

12. Mechanical Engineering: An engineering branch that combines engineering physics and mathematics principles with materials science to design, analyze, manufacture and maintain mechanical systems ***only in the construction industry.***

13. Structural Engineering: A sub-discipline of civil engineering in which structural engineers are trained to design the 'bones and muscles' that create the form and shape of man-made structures.

14. Urban Planning: Also known as regional planning, town planning, city planning, or rural planning, is a technical and political process that is focused on the development and design of land use and the built environment, including air, water, and the infrastructure passing into and out of urban areas.

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ACE Mentor San Diego 2024 Scholarship Application Form

A. Background

Name

_____ *Last* _____ *First* _____ *Middle Initial*

Address

_____ *Street* _____ *Apt*

_____ *City* _____ *State* _____ *Zip*

Primary Email address:

Other Email address:

Cell Phone:

Grade Level: Jr. ___ Sr. ___

High School Name:

Guidance Counselor:

Cumulative GPA of _____ on a scale of _____

Have you completed a prior year of the ACE Mentor Program? No ___ Yes ___ If yes, year(s)? ___

Intended Major:

Colleges Applied to:

_____ *First College Choice* _____ *City* _____ *State*

_____ *Second College Choice* _____ *City* _____ *State*

_____ *Third College Choice* _____ *City* _____ *State*

B. Activities

List any school or community activities you have been involved with for at least one full year during high school:



C. Honors

List any honors, awards, achievements, or certifications you have received that you are proud of:

D. Essays

Choose two of the essay topics below and write a 500-word essay for each of them. Clearly label which ones you are choosing. *(Recommendation: The essays should be typed in advance and uploaded to the online application.)*

Very Important: **WRITE YOUR NAME AT THE TOP OF EACH ESSAY.**

1. Imagine you are telling your best friend about the ACE Mentor Program and an exciting activity you did, trip you took, or person you met. What would you tell them?
2. Describe your thoughts on any architectural, engineering, or construction achievement that you feel is significant.
3. Pick something that you see around you that you think could be redesigned to work better (i.e. layout of a neighborhood, location of an airport, factory, shopping area, etc. operation of the trolley system, construction of a building, etc.) and describe how you would redesign it.
4. Imagine you have just graduated from college and are about to start your career. What career are you choosing, why, and what do you hope to accomplish in it?

E. Official Academic Transcript

Obtain an official academic transcript from your school and email it to the ACE Scholarship Committee at: dawrence@dyna-sd.com

F. Certification

I certify that the information provided in this application is complete and accurate to the best of my knowledge. Falsification of any information will cause disqualification from the scholarship program. Acceptance of the scholarship constitutes permission to use the recipient's name and/or likeness for public relations purposes.

Signature

Date