
ASCE HIGH SCHOOL SCHOLARSHIP 2023 FORM

Dear Parents/Students,

The American Society of Civil Engineers (ASCE) Student Chapter at California State University, Northridge, is proud to announce the opportunity to give future engineering students a chance to receive financial aid. We, the chapter, understand the importance of paving an early start for your child's engineering career. We are offering **4** scholarships to motivated engineering students. Each scholarship is **\$1,000**. The four scholarship awards have been established to honor individuals who have a passion for engineering and creating a better future.

Awards

Up to four scholarship awards are available in the amounts of \$1,000. All scholarship awards will be paid directly to the recipients.

Eligibility

- Candidates must apply to an accredited four-year university or two-year college majoring in any engineering discipline
- Candidates must be a graduating senior or junior
- Candidates must demonstrate creativity and innovativeness
- Candidates must have at least a 2.0 grade point average (GPA) weighted

The American Society of Civil Engineers Student Chapter CSUN scholarship awards are awarded without regard to race, sex, religion, age, nation origin or sexual orientation. The ASCE Student Chapter will not award scholarships to applicants who are not qualified and reserves the right not to award a scholarship.

Project

In civil engineering, one of their main jobs is to make bridges that cars and people can cross over. Before each bridge is built, it goes through many check points to make sure it's safe for all to use. For example, the max weight the bridge can carry and the design of the bridge. The design of the bridge is one huge factor to make the bridge stable and strong. Now, it's your turn to create a bridge.

Constraints:

- Use up to 160 popsicle sticks (Dimensions: 4.49 inches (L), .37 inches (W)). Don't get notched sticks. All sticks used may not be modified or cut. Use full length of the popsicle stick when creating your bridge.
- May not exceed over 2 lb
- Must be 18 inches long.
- Only use glue to connect each stick together
- Height must be 3 to 5 inches high
- Width is only 1 to 4 inches

Your project will be judged on weight, aesthetics, and deflection. Once the bridge is done, you must use two one-liter bottles, evenly spaced out, to see how much your bridge is able to carry (more information in Video section). You can research and learn about bridges' structure and design, but **DO NOT COPY A BRIDGE FROM THE**

INTERNET. Only use educational videos on real world bridges. Research what makes a bridge weak and strong. We will make sure to check every bridge. When we judge aesthetics, we expect a neat and presentable bridge.

Video

Make the video four to six minutes long. **DO NOT** exceed the given time slot. Videos longer than six minutes will be disqualified. Allotted time is given to special cases. Contact us if you have a reason to extend your time.

In your video, introduce yourself and your bridge. Get a clear shoot of your bridge. Either get a 360 view of your bridge by moving your camera around the bridge or insert images in your video showing your bridge.

Answer each question listed below. These questions are asked with the purpose of giving you items to include in your presentation. Keep in mind, this is a presentation not a Q&A. Present your project/answers as a presentation not a Q&A style.

TIP: Prepare responses for all the questions and then prepare your presentation around them to make sure to include all these responses.

- 1.) Why did you apply for this scholarship?
- 2.) What was the main objective or purpose of your popsicle bridge project?
- 3.) Can you describe the design process you went through before building the bridge?
- 4.) What specific engineering principles did you apply in the design and construction of your bridge?
- 5.) What challenges or obstacles did you encounter during the construction phase, and how did you overcome them?
- 6.) What makes your bridge stand out from other students?
- 7.) What did you learn from this project that you can apply to future engineering endeavors?

The final step to the video is testing your project. Place your bridge between two tables or any surface to create a gap between the bridge. You are **ONLY** allowed to have a max of three inches of the bridge on each side touching two different surfaces.

Place two one-liter bottles in the center of the bridge with a string. The way to set it up is left to the participant to decide. If you are not able to obtain two one-liter bottles, use anything that weights 4.4 lbs.

The goal is to have the bridge hold two one-liter bottles without breaking the bridge. Do not worry if the bridge fails. The project is judged in other categories. Be creative in your video, and editing is permitted to shorten video.

Upload your video to YouTube and have the video unlisted. Unlisted means it's not publicly available, and video can be seen if sent the link. Make sure to paste the link to your video in the google form through our website. The only viewers are our judges, and will not be shown at the ceremony if chosen as the winner.

Application and Submission

Submit **ALL** forms through our website, www.csunasce.com. Fill out the google form under "FORMS" and select "ASCE HIGH SCHOOL SCHOLARSHIP." **DO NOT** submit video links or applications through email. **ONLY** submit through our email if you are having issues submitting through the website.

DUE DATE: JANUARY 12th, 2024 at 12 AM.

ANY FORMS SUBMITTED AFTER THE DUE DATE AND TIME WILL AUTOMATICALLY BE DISQUALIFIED.

If you have any questions or concerns, contact us at:

(CSUN ASCE Student Chapter) csun.asce@gmail.com
(Citlali Sandoval – Co. Outreach Chair) citlali.sandoval.149@my.csun.edu

ASCE HIGH SCHOOL SCHOLARSHIP APPLICATION 2023

Please type your answers.	
1 .	<div style="display: flex; justify-content: space-between;"> Last Name: First Name: </div>
2 .	Mailing Address Street: City: State: Zip:
3 .	Telephone Number: () Email Address:
4 .	Date of Birth: Month Day Year
5 .	Intended University/Engineering Major:
6 .	High School Name: High School Address: Currently a Junior or Senior? Circle one: YES NO
7 .	GPA (weighted):
8.	Name & address of parent(s) or legal guardian(s) if under the age of 18: Name(s): Street: City: State: Zip: Home phone of parents or legal guardians: Work Phone: ()

STATEMENT OF ACCURACY FOR STUDENTS

I hereby affirm that all the above stated information provided by me is true and correct to the best of my knowledge.

I also consent that if chosen as a scholarship winner my picture may be taken and used to promote the scholarship program. (Winner may waive photo due to unusual or compelling circumstances.)

I hereby understand that if chosen as a scholarship winner, according to the American Society of Civil Engineers Student Chapter, I must be present at any potential awards ceremony, surprise, or reception to receive my scholarship award.

I hereby understand I will not submit this application without all required attachments and supporting information. Incomplete applications or applications that do not meet eligibility criteria will not be considered for this scholarship.

Signature of scholarship applicant: _____ **Date:** _____

