

Student Chapter Resources Needed for Society Competitions and Events

Note that this is guidance and estimates. See competition rules for more information. Student chapters should use their judgment and take their specific circumstances into account when planning and preparing for competitions.

Society-wide Competitions	Team Size Range (# of Students)	Cost Estimate (\$), not including travel	Start Date (month)	Pre-Event Submission(s) Required ** (Yes or No)	Pre-Event Time Estimate (hrs)	At Event Time Estimate (hrs)	Required Space (on campus) and Equipment	Does this competition advance to a Society-wide finals competition in 2024? If so, where?
ASCE Concrete Canoe Competition	10+	\$3,000 - \$5,000+ (depends on in-kind donations)	September	Yes - Preliminary Project Delivery Schedule, Letter of Intent, and RFQ Pre-Qualification Form due 11/3/23 - Project Proposal, Mix Design Sheets, and Materials Notebook Deadline due 2/16/24	100s depending on # of team members	16 - 25 hours (1/2 to full day display; 30 min presentation + watching; 9 hour race day)	Lab if possible. Indoor space to construct canoe. Meeting space for team meetings. Water to practice paddling (optional). See rules for equipment.	Yes ASCE 2024 Civil Engineering Student Championships Brigham Young University, June 20-22, 2024
ASCE UESI Surveying Competition	3-6	Safety Vests + Printing	January	Yes: Task 1A due 2/26/24	30 hours	7 hours	Survey equipment as specified by the host	Yes ASCE 2024 Civil Engineering Student Championships Brigham Young University, June 20-22, 2024
ASCE Sustainable Solutions Competition	2-7 (2-5 present at Symposia and Finals)	\$80 Printing poster, poster mounting surface	September	Yes Technical Design Proposal, Envision Checklist and Criteria Justification, Outreach Poster, Sketchup File due at least 3 weeks prior to symposium (date set by host)	Total of 200+ person-hours	Poster Session 1-2 hours; Presentations 15 mins - 5 hours (dependent on watching other presentations)	Computer, ability to print 48"Wx36"H poster	Yes ASCE 2024 Civil Engineering Student Championships Brigham Young University, June 20-22, 2024
AISC/ASCE Student Steel Bridge Competition	6-12 Some teams may have more (20-30+) depending on how tasks are delegated.	\$100-\$4,000 (depends on in-kind donations) <i>Note: \$750 stipends are available for teams participating in a regional competition. An additional \$1,500 stipend is awarded to teams that qualify for the national finals.</i>	September	No**	500-1,000 person-hours	4-6 hours	Equipment: - Raw materials (steel shapes, bolts, etc.) - PPE including but not limited to gloves, hard hat, boots, helmet for welding, face shield - Miscellaneous hand tools, such as tape measure, wrenches, pliers, c-clamps, level For fabrication: Teams are encouraged to actively participate in as much of the fabrication process as possible. Access to a machine shop is ideal, although not required. Shop equipment includes drill press, horizontal band saw, belt sander, welding machine, and hand-held grinder. Access to a vertical band saw, shear, press brake, and mill may also be helpful. Refer to the SSBC Safety Awareness Guide for Fabrication for more information. For those who may not have full shop access and/or training on campus, refer to the Team Resources page at aisc.org/ssbc about opportunities to partner with local fabricators and IMPACT facilities. For construction practice: space for the construction layout (approximately 70 ft x 20 ft) For load testing (optional): fish or luggage scale for lateral load test, plumb bob, PPE, safety supports, decking units, and load.	Yes Student Steel Bridge Competition National Finals Louisiana Tech University, May 31-June 1, 2024
Society Pilot Competitions								
ASCE Construction Institute Student Symposium Competition	2-4 students	\$0	Student symposium only	CI Competition Team Member Form due 2/1/24	0 hrs	4 hours	No pre-work prep is required	A student from the winning team will be invited to the CI student days event in the summer of 2024
Timber-Strong Design Build Competition	4 to 20	\$500 - \$3000 (depending on in-kind donations) Varies by design. Raw material costs: framing, sheathing, engineered connectors donated by SST if requested by deadline in rules, fasteners, tools to build with. If only doing the BIM portion of the competition, no cost.	September, but teams can start as late as Nov. or Dec. and be successful	Yes - Ladder Safety Training Course completion and certification required prior to commencing any construction/assembly tasks - Phase One project deliverables due 1/26/24 - Phase Two project deliverables due 2/23/24 - Phase Three project deliverables due 3/1/24	200-600 hours (varies by design and experience level of team)	3-4 hrs. (90 minute build + staging, judging, and clean-up)	Lab area or parking lot to pre-build walls and floor system. See rules for needed equipment (ex: saws, drills, hammers, and ladders, etc.)	No
3D Printing Competition	3-5	\$30-\$200	September, but teams can start as late as Nov. or Dec. and be successful	No**	100 hours for design 10 hours for presentation 100 hours for printing and quality control	2-4 hours depending on number of teams (~35 min/team): 5 minute poster presentations 10 minute assemblies 5 minute weight and dimensional tests 15 minute load and deflection tests	Meeting room, access to a 3D printer and structural analysis software, lab space for testing the 3d printed bridge	No
Additional Events/Competitions								
Student Symposium Paper Competition*	1	\$0	January	Yes, submission date set by host	10+ (depending on paper topic)	30 minutes	n/a	No
Student Conference Business Meeting*	1-3 reps per student chapter	\$0	1 month out	No, unless you propose an agenda item	1	1.5 hours	n/a	n/a
Leadership Pop-up Sessions	individual student activity	\$0	On-site	No	0	1-3 hours (All students may attend 1,2 or 3 events. The more you attend the more you learn.)	n/a	n/a

* Part of eligibility requirements to advance to Society-wide competition finals and SSBC National Finals.

**Pre-event submissions means submissions beyond the Intent and Eligibility Acknowledgement Forms (Letter of Intent for Concrete Canoe). All Society-wide and Society Pilot Competitions require an Intent and Eligibility Acknowledgement Form. If there are any discrepancies between this spreadsheet and competition rules regarding due dates, the due dates in the competition rules are to be followed. Further, a response to a RFI or addendum could change a due date or requirement.