

SC solar car
driving innovation

2017
Sponsorship Package

WHO WE ARE

The **Southern California Solar Car Team (SC/SC)** is a new undergraduate project devoted to building an exclusively solar-powered, single passenger vehicle from the ground up.

Founded in the Fall of 2014, the SC Solar Car Team brings together students from all backgrounds to **further development in renewable energy**. The team's goal is to independently research, design, build, and test a solar-powered vehicle in time to compete in a race spanning nearly 2500 km, the **American Solar Challenge 2018 (ASC)**. Entirely student led, the team has already completed the full electrical and mechanical design and is currently working on the fabrication of the suspension, battery pack, and drivetrain systems. It has grown to encompass over 60 active students from a diverse array of majors including engineering, business, music, and film.

The SC Solar Car Team provides students with the opportunity to gain **hands-on engineering and business experience**. Students' work on this empowering extra-curricular project not only helps advance green energy and motor vehicle technology, but also prepares them, with avant-garde training and skills, for a **professional career post-college**.

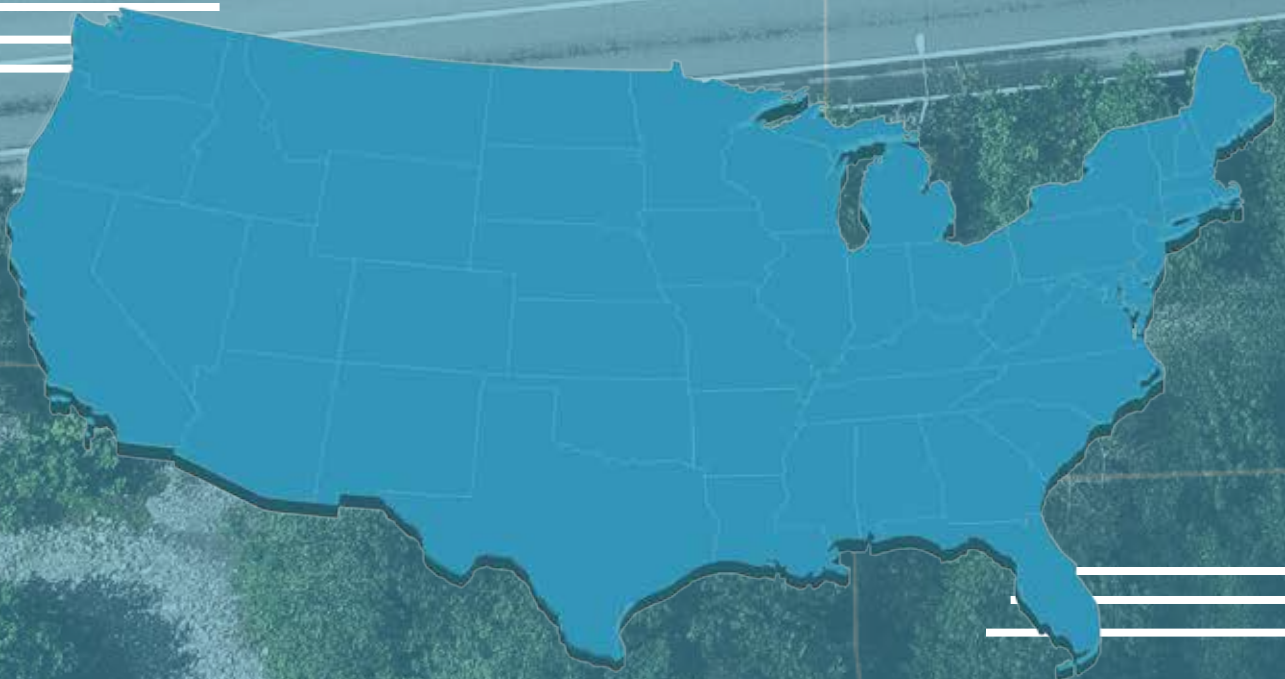
TEAM GOALS

- **TO BUILD** a functional solar-powered vehicle capable of heavy road use and competition in both national and international competitions.
- **TO FOSTER** innovation and growth in all fields related to solar-powered vehicles through community outreach and participation in solar racing competitions.
- **TO PROVIDE** USC students with invaluable hands-on experience and the opportunity to bring their ideas to reality.
- **TO BE** actively involved in the community, encouraging green technologies and sustainable energy habits.

THE RACE

The American Solar Challenge (ASC) is the premiere North American competition for solar powered electric vehicles. It is currently one of the leading initiatives in furthering renewable resource based automotive engineering. The premise of the competition is to complete a 2500km journey across the United States of America using only the power of the sun.

We will be competing in the Challenger Class, which requires teams to maximize speed and power efficiency while minimizing structural weight and aerodynamic drag for a single passenger vehicle. Along with strict design requirements, all teams are subjected to rigorous safety testing. With many significant, and often unforeseeable obstacles to overcome such as weather, potholes, mechanical and electrical system issues, and imperfect driving strategies. With so many challenges, merely finishing the race is seen as a great achievement. Imbued with the indomitable Trojan Spirit, the SC Solar Car team aims, of course, to not just finish the race, but to win it!



BUDGET

Electrical

Sunpower C60 Solar Cells	\$1820
LG 18650 Batteries	\$1680
Marand Halbach CSIRO Motors	\$20,000
Roboteq HBL 2360 BLDC Controller	\$625
Electronic Components	\$1,000

Mechanical

Raw Materials	\$3,000
Mechanical Parts	\$2,000
Epoxy Resin	\$500
Vacuum Bags	\$300
Composites Vacuum	\$250
Curing Tools	\$1,000
Automotive Paint	\$225

Safety

Protective Gear	\$500
Safety Equipment	\$300

Workshop

Tools	\$1,000
Welding Gas	\$300
Welding Equipment	\$500

Competition

Vehicle Rentals	\$1,000
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Misc

Fees, Emergency, Misc...	\$2,000
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TOTAL: \$40,000

SPONSORSHIPS

The SC Solar Car Team is seeking sponsorships and donations from organizations to support our advancement of green technology, STEM education, and innovative engineering design. Your support will be rewarded with economical media exposure, unique promotional opportunities, and direct access to the recruitment of the best and brightest students at USC. Most importantly, however, you will be championing the future and education of USC students—engineers and leaders who have already begun to tackle some of the world’s most difficult problems.

The success of the SC Solar Car Team is dependent on the generous contributions of our donors and sponsors. We thank you for your interest in our team, and with your support, we hope to continue our progress towards a greener future.

LEVELS OF SPONSORSHIPS INCLUDE ALL BENEFITS OF LOWER LEVELS

Trojan \$30,000
•Naming rights

Gold \$20,000
•Logo prominent on solar car and support vehicles
•Logo prominent on team apparel and website
•Promotion during all media interviews and public appearances
•Access to solar car for use at corporate events when possible
•Availability of team members for recruiting and presentations

Silver \$10,000
•Logo visible on rear half of solar car and support vehicles
•Logo prominent on team apparel and website
•Access to team résumé book

Partner..... \$1,000
•Logo visible on support vehicles
•Logo visible on team apparel and website
•Support with organizing company events on campus

Friend \$500
•Name on trailer
•Promotion on team website and social media
•Subscription to team publications and newsletters
•Tax recognition
•Solar car team t-shirts

ALL AMOUNTS ARE PER BUILD CYCLE AND INCLUDE BOTH IN KIND AND MONETARY DONATIONS

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