



International Student Chapter at Iowa State

Cyclone Off-Road Racing Sponsorship Proposal



Cyclone Off-Road Racing is a part of SAE International Student Chapter at Iowa State University. We are a team of students that designs, builds, and races a completely custom off-road vehicle in the SAE International Collegiate Design Series. Our members lead the entire process from concept ideation to manufacturing, testing and even driving at competition. These opportunities are only possible because of our sponsors. Their support allows club members to get firsthand experience in solving practical engineering problems and working within a team; skills that lead to success in industry.

Your support of Cyclone Off-Road Racing allows our team to continue a tradition of hard work and results, as well as explore new projects and grow in new directions.



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WHAT IS SAE BAJA?

SAE International hosts three Baja competitions in the West, Midwest, and Eastern regions of the United States each year. Competitions are comprised of both static and dynamic events. Static events like the design and sales presentations, each contain detailed project proposals and cost reports written and submitted prior to the competition. Dynamic events test the vehicle's capabilities in a physical environment. An overall score is derived from the team's performance in each event.

Static Events:

- Cost Event
- Design Report
- Design Presentation
- Sales Presentation
- Technical Inspection
- Engine Check

Dynamic Events:

- Acceleration
- Hill Climb
- Maneuverability
- Sled Pull
- Rock Crawl
- Suspension & Traction
- Endurance

BAJA AT IOWA STATE UNIVERSITY

Over Cyclone Off-Road Racing's nearly **forty-year history**, we have seen great success in the SAE International Collegiate Design Series. During our most recent season, the 2019 season, we were the **15th highest scoring team**, earning us a position among the **top 7% of teams in the world**. Our success was not only limited to the 2019 season; we have a resume of consistently placing in the top quarter of all teams and winning endurance races. Over the past 15 years, Cyclone Off-Road Racing has earned enough team points to earn us the rank of **31st highest scoring team** out of nearly 500 competing school.





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THE CAR AT A GLANCE

Performance

- 38 mph Top Speed
- 5000 lb. Towing Capacity

Front Suspension

- Fully Independent Suspension
- 12.7 in. of Vertical Wheel Travel
- Custom Coilover Shocks
- Dual A-Arm (Short-Long Arm)
- CNC Machined Custom Uprights

Drivetrain

- 10 Horsepower Briggs and Stratton
- Fully Custom Transmission and Gears

Dimensions

- Weight: 340 lbs.
- Front Track Width: 55 in.
- Rear Track Width: 50 in.
- Wheelbase: 70 in.

Rear Suspension

- Fully Independent Suspension
- 11.6 in. of Vertical Wheel Travel
- Custom Coilover Shocks
- 3-Link Trailing Arm

Chassis

- Custom Chassis TIG-Welded by Students





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OPERATING BUDGET

Monetary support is necessary for the manufacturing of the Baja vehicle as well as ensuring that the team can travel to competitions. Iowa State University has supplied the organization with office and shop space in past years, however, a great deal of equipment and supplies are essential for operation and development. The following is an estimated report of the costs the team experiences throughout the year. If you would like to view more detailed cost documentation, it is available for viewing upon request.

1. Car Costs	39,900
a. Engine.....	900
b. Transmission	9,200
c. Drivetrain.....	1,700
d. Steering.....	1,000
e. Suspension.....	3,600
f. Frame.....	11,500
g. Body	1,000
h. Brakes	1,000
i. Testing.....	800
j. Electrical.....	400
k. Data Acquisition.....	8,000
l. Fasteners.....	400
m. Transponders	400
2. Competitions	21,300
a. Louisville Midnight Mayhem.....	2,500
b. UW-Stout Backwoods Baja.....	1,500
c. Michigan Tech Winter Baja	1,700
d. SAE Louisville	7,700
e. SAE Illinois	3,900
f. SAE Arizona.....	4,000
3. Safety.....	1,200
a. On-Car	300
b. Driver.....	900
4. Shop Overhead	1,800
5. 2019-2020 SEASON TOTAL	
ESTIMATED FINANCIAL NEED.....	64,200



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COMMUNITY OUTREACH

Our team participates in K-12 outreach that engages all ages in science and technology activities. In past years the organization has hosted events for elementary students, high school STEM classes, FIRST Robotics League teams, and much more. Last year our members participated in



more than 20 distinct events both on campus, in our local Ames community, and beyond. Through these events, we strive to share the values we have gained through our team and university and promote a similar passion with future students.



HOW TO SUPPORT

Cyclone Off-Road Racing can be supported with many forms of sponsorship, each welcomed and appreciated. Common forms of sponsorship include materials, service donations, and general funding. With the organization's classification under the 501(c)(3) of the Internal Revenue Code,

YOUR DONATIONS ARE TAX-DEDUCTIBLE.

Your sponsorship also serves as advertising and marketing. Cyclone Off-Road Racing is a top team, regularly featured in periodicals, newspapers and other academic publications. Your name will be visible in at least five prime locations: the car, the team's two trailers, banners flown during competition and outreach events, the team website, and team apparel. Additionally, we often host sponsors of the team on campus for information sessions with our members and visit our sponsors when we are able. We aim to foster relationships between our sponsors and members, which leads to potential internships and full-time positions benefitting both our sponsors and the team.

Cardinal <\$500	Bronze ≥\$500	Silver ≥\$1000	Gold ≥\$2500	Platinum ≥\$5000
<ul style="list-style-type: none"> • Logo and Link on Team Website • Logo on Team Trailers • Logo on Team Apparel 	<ul style="list-style-type: none"> • Name on Banner • Small Logo on Car • Logo and Link on Team Website • Logo on Team Trailers • Logo on Team Apparel 	<ul style="list-style-type: none"> • 6" Logo on Banner • Medium Logo on Car • Logo and Link on Team Website • Logo on Team Trailers • Logo on Team Apparel 	<ul style="list-style-type: none"> • 8" Logo on Banner • Large Logo on Car • Logo and Link on Team Website • Logo on Team Trailers • Logo on Team Apparel 	<ul style="list-style-type: none"> • Primary Logo on Banner • Extra Large Logo on Car • Logo and Link on Team Website • Logo on Team Trailers • Logo on Team Apparel



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CONTACT INFORMATION



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Please mail to:

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[Iowa State Baja](https://www.youtube.com/IowaStateBaja)



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