



UBC Supermileage

2019-2020 Sponsorship Package

Our Team

70 students | 2229 mpg (Prototype Vehicle) | 2nd place (2019 SEMA & SAE)



UBC Supermileage is a team of interdisciplinary students committed to using and enriching our educational experience to tackle the enduring challenges we face in the pursuit of efficiency.

We design and build two energy efficient vehicles to compete in the Shell Eco-marathon Americas (SEMA) and the SAE Supermileage competition teams. Throughout this process, our dedicated members are educated in real-world technical design, as well as honed-in collaboration and project management skills.

Our Cars

Urban Concept Vehicle

The Urban Concept EV is designed to mimic the form and function of an everyday commuter vehicle. With the future of the automotive industry dramatically shifting toward zero-emission vehicles, we converted our gasoline internal combustion engine Urban Concept to use a battery-electric propulsion system beginning in the 2018-2019 competition year.

Prototype Vehicle

The Prototype is designed to push the limits of fuel efficiency in the internal combustion engine (ICE) category. The driver lies in a supine position and controls the three-wheeled vehicle with novel steering mechanisms designed for each competition. The SAE mandated Briggs & Stratton Junior 206 engine has been heavily modified, sleeving down to 68cc. The Prototype's best mileage in recent years is 2229 mpg.

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Our Plan

For the 2019-2020 season, each technical division has prioritized a few projects most likely to improve our performance. Additionally, the team will begin development of a Prototype FCEV for competition in the 2021 Shell Eco-marathon Americas.

Electrical

To minimize electrical consumption, the Electrical division is focused on developing an in-house motor controller with customized printed circuit boards (PCBs) for our Urban Concept EV.

Powertrain

After the successful customization of the cylinder head and valve-train, the Powertrain division will be focusing on engine optimization by increasing thermal efficiency and compression ratio.

Vehicle Mechanics

The Vehicle Mechanics division will be optimizing the aerodynamics and the structure of a new Urban Concept shell, and developing a new chassis for the Prototype FCEV.



The Future

Hydrogen Fuel Cell Vehicle (FCEV)

The direction of the automotive industry and our society as a whole points toward a greener, cleaner future. The team aims to add a new vehicle, a hydrogen fuel cell Prototype, to our set of competition vehicles. Our goal is to have a competition-ready vehicle for the 2021 Shell Eco-marathon Americas.

As a team, UBC Supermileage aims to train conscientious engineers to engage the challenges of sustainability. Fuel cell vehicles have the capacity to be zero emission and will be crucial in solving problems in long-distance transport due to the high energy density contained within hydrogen. The decision to pursue a fuel cell vehicle takes the team back to its roots, not just in the pursuit of efficiency, but in the pursuit of cleaner technical innovation.



How You Can Help

UBC Supermileage pursues new and ambitious projects every year. With the support of our sponsors, we can continue to elevate our team to the next level. The four main ways you can contribute are:

Materials and Equipment

Metal stock, composite fabrics and consumables, sandwich cores (foams & honeycombs), connectors, tools, personal protective equipment, tape, and other adhesives.

Project Services

Component machining, PCB fabrication, mold production, and precision assembly processes.

Competition Logistics

Vehicle transport and shipping, flights, rental vehicles, and accomodation.

Monetary Donation

Capital to purchase the above listed items that are not available through in-kind sponsorships.



Sponsor Benefits

	Select \$500-\$1499	Bronze \$1,500-\$2,999	Silver \$3,000-\$7,499	Gold \$7,500-\$14,999	Platinum \$15,000-\$19,999
Vehicle Logo Size¹ (in²)	Up to 10	Up to 20	Up to 30	Up to 40	Up to 50
Website Logo²	✓	✓	✓	✓	✓
Sponsor Appreciation Night	-	✓	✓	✓	✓
Social Media	-	Thank-you	Thank-you/ Special Request ³	Thank-you/ Special Request ³	Thank-you/ Special Request ³
Workshop Tour	-	-	✓	✓	✓
Preferred Vehicle Logo Placement	-	-	-	✓	✓
Track Day Invitation	-	-	-	-	✓

We greatly appreciate the generosity of our sponsors and strive to make our relationships mutually beneficial. The table above outlines how we can use our 2000+ social media followers, community presence, and competition performance to represent your company.

1. Vehicle logos will be displayed at the next SEMA and SAE competition following your contribution.

2. Website logos are renewed in the summer after the competition year, allowing your logo to be displayed for a full calendar year on our website.

3. Please contact us to discuss any unique promotional requests.



Thank you to our **2018-2019** sponsors.



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