

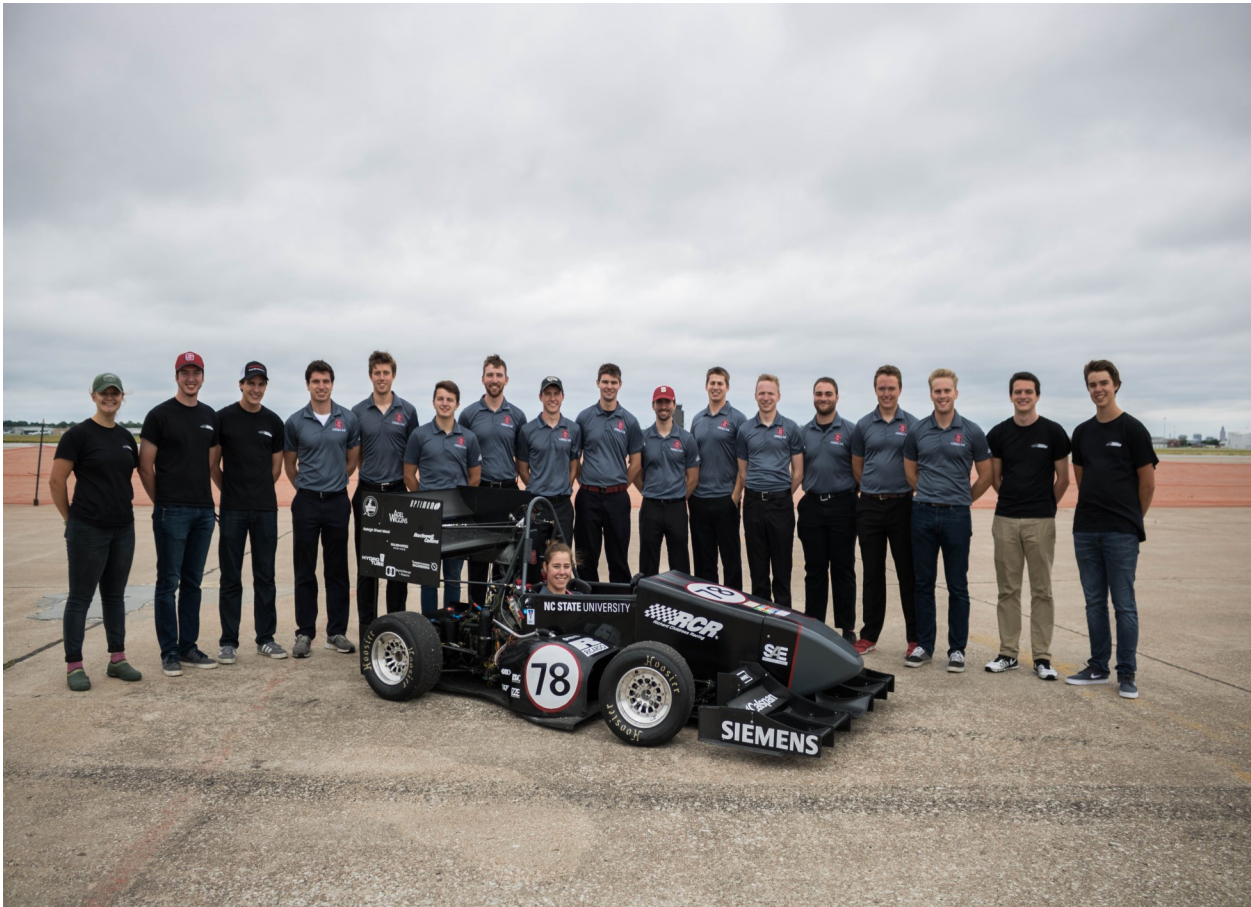
NC State Motorsports Formula

2018-2019 Sponsorship Packet



Team

NC State Motorsports is NC State's Formula SAE (Society of Automotive Engineers) team. The team has 25 returning members that are responsible for designing and manufacturing each of the five vehicle-subsystems; chassis, suspension, aerodynamics, powertrain, and electronics. Each subsystem requires its members to implement organizational, managerial, and most importantly engineering skills. Throughout the development of each subsystem, members design for manufacturability, packaging, cost, reliability, and effectiveness.



In 2019, the team will be traveling to competitions in Michigan and Nebraska. At these competitions, teams are judged on their ability to design a reliable and functional vehicle at a reasonable cost. Teams must deliver reports on their design process and cost of the car, as if they are selling their car to a consumer. Additionally, teams compete against one another in driving events to prove their car's performance and reliability.

Competition

What is Formula SAE?

Formula SAE is a collegiate design competition hosted by the Society of Automotive Engineers. The competition challenges students from universities around the world to design, build, and test a formula style race car. It is broken into two types of events: static and dynamic.

Static Events

Engineering Design	200 points
Cost Analysis	100 points
Business Presentation	75 points

Dynamic Events

Acceleration	100 points
Skip-pad	75 points
Autocross	125 points
Endurance	225 points
Fuel Efficiency	100 points

Total **1000 points**



Past Cars

2016



WMF-16 switched from the turbo package used since 2005 to a naturally aspirated engine. The team also returned to a pull rod suspension in the front.

FSAE Michigan 48th Overall

2017



2017 was the first year that the team went to two FSAE competitions. The car featured carbon fiber suspension components and added down force. The car was the lightest in recent years at 452 lbs.

FSAE Michigan 56th Overall
FSAE Lincoln 11th Overall

2018



WMF-18 had many major design changes that led to performance gains in all areas. Notably, it had a new center fed intake system that reduced weight and increased power significantly. In Lincoln, this car achieved 2nd place in Acceleration.

FSAE Michigan 68th Overall
FSAE Lincoln 27th Overall

2019 Budget

Manufacturing Expenses

Suspension	\$15,850
Chassis	\$3,535
Engine	\$10,563
Drivetrain	\$7,258
Data Acquisition	\$9,315
Electronics	\$4,060
Shop Maintenance	\$1,660
Aerodynamics	\$10,500
	\$62,741

Competition Expenses

Truck Rentals	\$900
Diesel	\$2,225
Lodging	\$3,080
Competition Fees	\$4,800
	\$11,005

Total

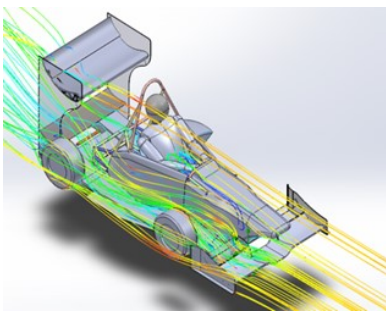
\$73,746



Support Us

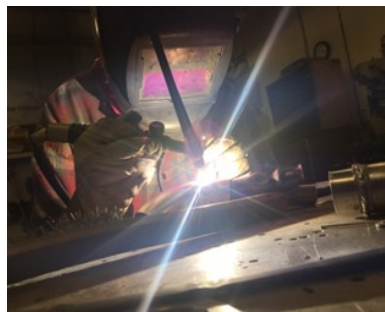
As a sponsor of Wolfpack Motorsports you will be contributing to the advancement of a small group of highly motivated and talented students' knowledge in several areas that are not covered in a traditional engineering curriculum.

Design



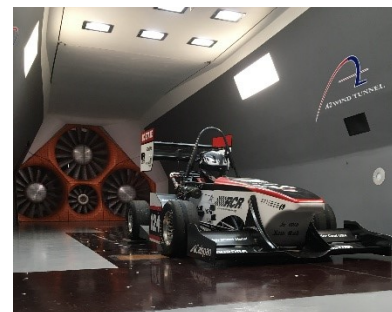
Wolfpack Motorsports members face real world problems and innovate solutions. Our members work with a variety of programs to aid this innovation, many of which are not available to general NC State students.

Manufacturing



All of our members are trained on various machines, including the mill and lathe, in addition to basic fabrication and welding. These skills are not normally covered in a traditional engineering education help our members design parts for manufacturability and ease of assembly.

Testing



After manufacturing our members begin the process of testing and tuning the car. First we must ensure that all of the parts designed meet our safety and performance specifications. Secondly the team uses data logged by the car to tune the vehicle for optimum performance.



Sponsorship

Platinum Team Sponsor

\$10,000

- Gold Sponsor Benefits
- Priority placement of large decals on the vehicle
- Special appearances of cars and team members at the sponsor's place of business or trade show*

Gold Team Sponsor

\$5,000

- Silver Sponsor Benefits
- Large company logo placed on cars
- Complimentary Team Apparel
- Invitation to all WM events

Silver Team Sponsor

\$3,000

- Medium company name and/or logo placed on racing cars
- Company name and/or logo placed on all clothing, printed and online material
- Display company banner/poster (provided by your company) at all competitions and educational events

Bronze Team Sponsor

\$1,000

- Small company name and/or logo placed on racing cars
- Company name and/or logo placed on all printed and online material

Partner of Wolfpack Motorsports

\$50 to \$999

- Name and/or logo placed on Wolfpack Motorsports Website

In Kind Donations:

- Wolfpack Motorsports gladly accepts donations of raw materials and supplies
- Cash value of material determines level of recognition

*Only if place of business or trade show is within 5 hour drive from Raleigh

Thank You!

Wolfpack Motorsports is only able to provide a unique and invaluable experience to our members because of the continued support from our sponsors.

To donate please visit: [**www.wolfpackmotorsports.com/donate**](http://www.wolfpackmotorsports.com/donate)

All donations to Wolfpack Motorsports are tax deductible.



Contact us at:

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Connect with us at:

www.wolfpackmotorsports.com

Instagram/Twitter: [@ncsu_racing](https://www.instagram.com/ncsu_racing)