

Space Exploration Raiders



Sponsorship Proposal

Academic Year (2023-2024)

Email: spaceexplorationraiders@gmail.com

Instagram: [space_exploration_raiders](https://www.instagram.com/space_exploration_raiders)



Dear Corporate Representative,

We are Texas Tech's first chapter of NASA's Human Exploration Rover Challenge. This past year was the first year that Space Exploration Raiders competed in this international competition. This year the team is super excited to start this next chapter and wants to be able to put together the best team possible to try and place first with the knowledge we gained from last year. We would like to personally send a thank you to you for taking the time to read and consider our team for sponsorship.

This semester we are looking to start designing and developing our rover to ensure there is enough time to test and ensure that our rover is up to standards. Starting the spring semester, we would start simulating testing areas that would be presented to us during the competition and make sure that our team is equipped with the right tools necessary to compete. This group will help many students find a direct field of interest that they will have experience for employment after college. Through the designing, manufacturing, and testing of this rover, students will develop real-world experiences from this team.

Through this team we are trying to create a team that can support one another in the design, manufacturing, and testing of our rover to be a competitive team come April. We want to keep this team spirit and drive alive for as long as possible by handing it down to the next generation of engineering students. We want to spread the knowledge and team aspect of Texas Tech Engineers while creating a competitive atmosphere to push each other to be the best students and engineers possible. Once again, I want to thank you for taking the time to go through our packet and I hope you have a great rest of your day.

Sincerely,

The Space Exploration Raiders Team



We are Texas Tech's first chapter of NASA's Human Exploration Rover Challenge. This year is the first year that Texas Tech students are trying to put together a team to compete in this international competition. This year the team is super excited to start this chapter and wants to be able to put together the best team possible to try and place first even though we are going to be considered a rookie team. We would like to personally send a thank you to you for taking the time to read and consider our team for sponsorship.

This semester we are looking to start designing and developing our rover to ensure there is enough time to test and ensure that our rover is up to standards. Starting the spring semester, we would start simulating testing areas that would be presented to us during the competition and make sure that our team is equipped with the right tools necessary to compete. Since this is the first year that this team has been formed, we are looking for help from you to help ensure the success of this group. Forming this group will help many students find a direct field of interest that they will have experience for employment after college. Through the designing, manufacturing, and testing of this rover, students will develop real-world experiences from this team.

Through this team, we are trying to create a team that can support one another in the design, manufacturing, and testing of our rover to be a competitive team. We want to keep this team spirit and drive alive for as long as possible by handing it down to the next generation of engineering students.



Sponsorship Levels:

The levels of sponsorship available for the academic year are platinum, gold, silver, and bronze. At these levels you can receive perks regarding the rover such as: Free recognition, thank you photo albums, T-shirts, etc.

Bronze Level Sponsor: Donations from \$500 up to \$1,499 per school year

- Shoutout on Instagram
- T-shirts with sponsor on the back

Silver Level Sponsor: Donations from \$1,500 up to \$2,999 per school year

- Everything above
- Book/ Plaque with event and company logo

Gold Level Sponsor: Donations from \$3,000 up to \$4,999 per school year

- Everything above
- Logo in team presentations
- Logo on the Rover

Platinum Level Sponsor: Donations from \$5,000+ per school year

- Everything above
- Large Logo on Rover
- Largest Donor on Polos (Powered by: Company)



Budget:

Component	Item	Quantity	Amount per Unit	Total Amount
Wheels	4" Schedule 40 PVC	14'	\$	15.57
	Aluminum 3/8-16 Hex Head Screws pack of 10	6	\$	11.74
	TPU 3D Print Filament	1	\$	787.00
Suspension	1/8"x3" Aluminum Strap	12'	Donated	
	5/8" Steel Tubing	20'	Donated	\$ -
	1/2"-20 Hiem Joints	24	\$	10.20
	1/2" Bearings	8	\$	6.75
	1 1/4" Bearings	8	\$	9.99
	1/4"-20x 1 1/2" Hex Bolt Pack of 20	1	\$	9.65
	1/4"-20 Hex Lock Nuts pack of 25	1	\$	6.99
	1/2"-13x3" Hex Bolts pack of 4	6	\$	10.55
	1/2" Hex Lock Nuts pack of 20	2	\$	11.99
	1/4"x1 1/2" Aluminum Strap	12'	Donated	\$ -
	1/4"-11x1 1/2" Hex Bolt 100 Piece	1	\$	22.32
	1/4"-20 100 Piece Lock Nut	1	\$	12.93
	1/2"x2"	12'	Donated	\$ -
	2" Aluminum Square Tubing (.125")	24'	Donated	\$ -
	2" Aluminum Square Tubing (.188")	24'	Donated	\$ -
Braking	Stadium Seats	2	\$	34.99
	Braking Kit	2	\$	40.22
	Rotor	2	\$	33.99
Tool	FOT 4 Brake Fluid	2	\$	5.97
	1/4" Quick Disconnect Tube Coupling	7	\$	26.74
	Nylon Sleeve Bearing	2	\$	0.80
	Heat shrink Terminal, 10 Pack	1	\$	9.62
	Coil Spring w/ cover	1	\$	41.42
	Sample Bottles	1	\$	22.49
	Sample Clips	1	\$	13.99
	12V DC Motor	1	\$	16.00
	Diaphragm Pump	1	\$	29.99
	Tubing	1	\$	21.99
Steering	Carbon Steel 36" 5/8"-18	1	\$	51.63
	5/8"-18 Right Hand Hiem Joint	4	\$	12.33
	Rubber Bike Grips	1	\$	7.99
	1/8" Wall Thickness 3/4 OD 1' Long	2	\$	24.81
	1/8" Wall Thickness 1"x1" 6ft Long	1	\$	51.46
	5/8"-18 X 4" Fully Threaded Hex Bolts	1	\$	4.78
	5/8"-18 Pack of 5	1	\$	5.61
Drivetrain	5/8"-18 Left Hand Tap	1	\$	20.90
	Differential	2	\$	156.00
	1/4"-20 Bolts	1.74	\$	3.99
	3.5" OD 5/8" ID Pulley	2 Count	Donated	\$ -
	3.5" OD 1" ID Pulley	4	\$	18.84
	54" V Belt	2	\$	14.47
	71" V Belt	1	\$	17.75
	Bearing	4	\$	22.74
	1/2-20 Carbon Steel Nuts	50	\$	0.20
	Epoxy	1	\$	21.99
	Spring Pins	8	\$	5.10
Wheels Total				\$ 966.43
Suspension Total:				\$ 517.89
Chassis Total:				\$ 69.98
Braking Total:				\$ 160.36
Tool Total:				\$ 344.28
Steering Total:				\$ 241.31
Drivetrain Total:				\$ 604.69
Rover Total:				\$ 2,904.94



Budget For Travel	Quantity:	Price:	Total Cost:
		\$	
Car Rental	1	1,026.50	\$1,026.50
		\$	
Lodge (Per Night)	4	280.75	\$1,123.00
		\$	
Gas (Per Tank)	6	200.00	\$1,200.00
		\$	
Food (Per Person)	50	50.00	\$2,500.00
Total Cost of Travel:			\$5,849.50



Event Descriptions

The Space Exploration Raiders Club at Texas Tech University is dedicated to exposing engineering students to the design and manufacturing process of building a NASA grade rover. We also emphasize teaching our students the financial and business skills required to budget, purchase, and travel within the club. Sponsoring this club would not only mean that you would be donating to help afford new materials and equipment to build the rover, but your company would also be gaining international exposure when the club competes at the NASA Human Exploration Challenge Competition in Huntsville, Alabama. Your company will also be exposed to the Whitacre College of Engineering at Texas Tech University and all its faculty, staff, and students. Along with this, we would love to have your company visit Texas Tech to give an informational session about your company to the college of engineering students along with the club members. We are striving to get your company more involved this year as we see a multitude of benefits for the company and the club!



Corporate Contribution Form

Company Name: _____

Contact: _____

Position: _____

Company Address:

City: _____ **State:** _____ **Zip Code:** _____

Phone Number: _____

Email: _____

Sponsorship Levels: Please check which applies.

- _____ **Bronze Sponsor: Donations from \$500 up to \$1,499 per school year**
- _____ **Silver Sponsor: Donations from \$1,500 up to \$2,999 per school year**
- _____ **Gold Sponsor: Donations from \$3,000 up to \$4,999 per school year**
- _____ **Platinum Sponsor: Donations from \$5,000+ per school year**