

Review Request

Request Additional Information

Budget

FY19 JFC  
Budget Request for Carnegie Mellon Racing

Requested Total	\$111,335.99
Reviewer Adjusted Total	\$59,835.99↓ (-\$51,500.00 / -46.26%)

Sections (14)	# of Line Items (107)	Amount
Administrative	16	\$27,800.00
Energetics	17	\$49,759.99
Composites	10	\$8,550.00
Chassis	8	\$6,600.00
Drivetrain	6	\$8,250.00
Suspension	7	\$4,870.00
Steering	5	\$1,700.00
Unsprung Mass	7	\$10,466.00
Impact Attenuator	2	\$190.00
Cooling	3	\$850.00
Driver Interface	5	\$1,500.00
Shop Supplies	8	\$25,650.00
Safety Equipment	5	\$1,950.00
Income	8	(\$36,800.00)

BUDGET SECTION:



Administrative

1.	<u>Formula SAE Electric Registration Fee</u>	Operations - Registration and Tournaments	1 x \$2,200.00
2.	<u>Formula North Registration Fee</u>	Operations - Registration and Tournaments	1 x \$1,200.00
3.	<u>Design Competition Uniforms</u>	Equipment - Uniforms	30 x \$450.00 ↓ \$60.00
4.	<u>CMR 17e Maintenance</u>	Operations - Equipment Repair	1 x \$2,000.00 \$2,000.00

REVIEW STEP:







Appeals

Reviewer Actions

	
Forward to Next Step	Back to Previous Step

Request History

Add Comment

	Juhyung Park	4/15/2018, 4:29PM
<i>"Electric Motors" adjusted from \$9,300.00 to \$9,300.00.</i>		
	Juhyung Park	4/15/2018, 4:26PM
<i>"Battery Cells" adjusted from \$4,800.00 to \$4,800.00.</i>		
	Moved to Appeals by Gabriela Cach	4/14/2018, 11:49AM
	Syed Rafay Mahmood	4/7/2018, 2:48PM
Audience		
	Syed Rafay Mahmood	4/7/2018, 2:47PM
<i>"Spot Welder Purchase" adjusted from \$3,900.00 to \$3,900.00.</i>		
	Antoine Remond-Tiedrez	4/7/2018, 9:41AM
<i>"Battery Management System" adjusted from \$7,000.00 to \$7,000.00.</i>		

5.	<u>1-Day Test Facility Rental</u>	Operations - Rental Facilities	4 x \$100.00	\$400.00
6.	<u>Uhaul Rental</u>	Operations - Rental Equipment	2 x \$2,000.00	\$4,000.00
7.	<u>CMR 67 Maintenance</u>	Operations - Equipment Repair	1 x \$500.00	\$500.00
8.	<u>New Member Meeting Food</u>	Food - Recruitment	1 x \$100.00	\$100.00
9.	<u>Team Member Food</u>	Food - Meals for Members	50 x \$10.00	<b>\$450.00</b> ↓
10.	<u>Team Recruitment and Promotion</u>	Operations - Advertising and Publicity	1 x \$100.00	\$100.00
11.	<u>Competition Room and Board</u>	Travel - Hotel & Lodging	50 x \$150.00	<b>\$0.00</b> ↓
12.	<u>Competition Travel Airfare</u>	Travel - Airfare Domestic	25 x \$200.00	<b>\$0.00</b> ↓
13.	<u>Steel City Indoor Karting Reservation</u>	Operations - Rental Facilities	1 x \$1,500.00	<b>\$0.00</b> ↓
14.	<u>Testing Equipment</u>	Operations - General Supplies	1 x \$600.00	\$600.00
15.	<u>Competition Canopies</u>	Operations - Event Supplies	2 x \$100.00	\$200.00
16.	<u>CMR Banner</u>	Operations - Event Supplies	1 x \$200.00	<b>\$100.00</b> ↓

## Energetics

1.	<u>Fuses</u>	Operations - General Supplies	1 x \$200.00	\$200.00
2.	<u>Relays</u>	Operations - General Supplies	2 x \$150.00	\$300.00
3.	<u>Electric Motors</u>	Operations - General Supplies	2 x \$4,650.00	\$9,300.00
4.	<u>Battery Cells</u>	Operations - General Supplies	1200 x \$4.00	\$4,800.00
5.	<u>High Voltage Wiring</u>	Operations - General Supplies	1 x \$2,000.00	\$2,000.00
6.	<u>Motor Controllers</u>	Operations - General Supplies	2 x \$5,200.00	<b>\$0.00</b> ↓
7.	<u>Sensors</u>	Operations - General Supplies	1 x \$2,000.00	\$2,000.00
8.	<u>Battery Management System</u>	Operations - General Supplies	7 x \$1,000.00	\$7,000.00
9.	<u>Low Voltage Wiring</u>	Operations - General Supplies	1 x \$350.00	\$350.00
10.	<u>Low Voltage PCBs</u>	Operations - General Supplies	15 x \$250.00	\$3,750.00

11.	<u>Accumulator Container</u>	Operations - General Supplies	1 x \$1,000.00	\$1,000.00
12.	<u>Bus Plates/Bars</u>	Operations - General Supplies	1 x \$1,600.00	\$1,600.00
13.	<u>Spot Welder Rental</u>	Operations - Rental Equipment	1 x \$600.00	<b>\$0.00 ↓</b>
14.	<u>Spot Welder Purchase</u>	Capital Expense Fund	1 x \$3,900.00	\$3,900.00
15.	<u>Fluke 1587/MDT FC Advanced Troubleshooting Kit</u>	Capital Expense Fund	1 x \$1,199.99	\$1,199.99
16.	<u>MX-5241 Dual Port Simultaneous Rework Station</u>	Capital Expense Fund	1 x \$1,100.00	\$1,100.00
17.	<u>High Voltage Safety Gloves</u>	Equipment Non-Capital	4 x \$65.00	\$260.00

### Composites

1.	<u>Carbon Fiber Rolls</u>	Operations - General Supplies	1 x \$900.00	\$900.00
2.	<u>Epoxy Resin</u>	Operations - General Supplies	1 x \$500.00	\$500.00
3.	<u>Mold Release Solvent and Wax</u>	Operations - General Supplies	1 x \$450.00	\$450.00
4.	<u>Mold Materials</u>	Operations - General Supplies	1 x \$2,000.00	<b>\$0.00 ↓</b>
5.	<u>Vacuum Bag Materials</u>	Operations - General Supplies	1 x \$350.00	\$350.00
6.	<u>Sandpaper</u>	Operations - General Supplies	1 x \$50.00	\$50.00
7.	<u>Aero Internal Structure</u>	Operations - General Supplies	1 x \$750.00	\$750.00
8.	<u>Aero Linkages</u>	Operations - General Supplies	1 x \$500.00	\$500.00
9.	<u>Paint Job</u>	Operations - Professional Services & Performances	1 x \$3,000.00	<b>\$0.00 ↓</b>
10.	<u>Paint Gun</u>	Operations - General Supplies	1 x \$50.00	\$50.00

### Chassis

1.	<u>Chassis Tubes</u>	Operations - Professional Services & Performances	1 x \$3,200.00	\$3,200.00
2.	<u>Aluminum Stock</u>	Operations - General Supplies	1 x \$1,000.00	\$1,000.00
3.	<u>Hardware</u>	Operations - General Supplies	1 x \$300.00	\$300.00

4.	<u>Powder Coat</u>	Operations - Professional Services & Performances	1 x \$400.00	\$400.00
5.	<u>Argon Gas</u>	Operations - General Supplies	1 x \$50.00	\$50.00
6.	<u>Filler Rod</u>	Operations - General Supplies	1 x \$100.00	\$100.00
7.	<u>Brushes</u>	Operations - General Supplies	1 x \$50.00	\$50.00
8.	<u>Hydraulic Car Lift</u>	Capital Expense Fund	1 x \$1,500.00	\$1,500.00

#### Drivetrain

1.	<u>Aluminum Stock</u>	Operations - General Supplies	1 x \$200.00	\$200.00
2.	<u>Motor Output Bearing</u>	Operations - General Supplies	1 x \$200.00	\$200.00
3.	<u>Hardware</u>	Operations - General Supplies	1 x \$200.00	\$200.00
4.	<u>Limited Slip Differential</u>	Operations - General Supplies	1 x \$2,500.00	\$2,500.00
5.	<u>Driveshafts</u>	Operations - General Supplies	1 x \$1,650.00	\$1,650.00
6.	<u>External Manufacturing Services</u>	Operations - Professional Services & Performances	1 x \$3,500.00	\$3,500.00

#### Suspension

1.	<u>Steel Stock</u>	Operations - General Supplies	1 x \$200.00	\$200.00
2.	<u>Aluminum Stock</u>	Operations - General Supplies	1 x \$150.00	\$150.00
3.	<u>Shocks/Dampers</u>	Operations - General Supplies	4 x \$650.00	\$2,600.00
4.	<u>Graded Hardware</u>	Operations - General Supplies	1 x \$500.00	\$500.00
5.	<u>Spherical and Rod End Bearings</u>	Operations - General Supplies	1 x \$500.00	\$500.00
6.	<u>Anti-roll Bars</u>	Operations - General Supplies	1 x \$400.00	\$400.00
7.	<u>Springs</u>	Operations - General Supplies	4 x \$130.00	\$520.00

#### Steering

1.	<u>Steering Wheel</u>	Operations - General Supplies	1 x \$250.00	\$250.00
2.	<u>Steering Column</u>	Operations - General	1 x \$100.00	\$100.00

	Supplies	\$100.00	
3. <u>Steering Rack</u>	Operations - General Supplies	1 x \$1,100.00	\$1,100.00
4. <u>U-Joints</u>	Operations - General Supplies	1 x \$150.00	\$150.00
5. <u>Aluminum Stock</u>	Operations - General Supplies	1 x \$100.00	\$100.00

#### Unsprung Mass

1. <u>Tires</u>	Operations - General Supplies	8 x \$146.00	\$1,168.00
2. <u>Aluminum Stock</u>	Operations - General Supplies	1 x \$1,050.00	\$1,050.00
3. <u>Wheels</u>	Operations - General Supplies	8 x \$256.00	\$2,048.00
4. <u>Steel Stock</u>	Operations - General Supplies	1 x \$200.00	\$200.00
5. <u>Brake Calipers</u>	Operations - General Supplies	4 x \$350.00	\$1,400.00
6. <u>Wheel Bearings</u>	Operations - General Supplies	8 x \$200.00	\$1,600.00
7. <u>Conturo Manufacturing Services</u>	Operations - Professional Services & Performances	1 x \$3,000.00	\$3,000.00

#### Impact Attenuator

1. <u>Foam Impact Core</u>	Operations - General Supplies	1 x \$140.00	\$140.00
2. <u>Steel Plate</u>	Operations - General Supplies	1 x \$50.00	\$50.00

#### Cooling

1. <u>Radiator</u>	Operations - General Supplies	1 x \$650.00	\$650.00
2. <u>Cooling Fans</u>	Operations - General Supplies	1 x \$100.00	\$100.00
3. <u>Cooling Pumps</u>	Operations - General Supplies	2 x \$50.00	\$100.00

#### Driver Interface

1. <u>Racing Seat</u>	Operations - General Supplies	1 x \$550.00	\$550.00
2. <u>Dashboard Fixtures</u>	Operations - General Supplies	1 x \$150.00	\$150.00
3. <u>Pedal Assembly</u>	Operations - General Supplies	1 x \$350.00	\$350.00

4. <u>Master Cylinders</u>	Operations - General Supplies	2 x \$200.00	\$400.00
5. <u>Balance Bar</u>	Operations - General Supplies	1 x \$50.00	\$50.00

#### Shop Supplies

1. <u>Drill Bits</u>	Operations - General Supplies	1 x \$300.00	\$300.00
2. <u>End Mills</u>	Operations - General Supplies	1 x \$300.00	\$300.00
3. <u>Lubricants and Oil</u>	Operations - General Supplies	1 x \$300.00	\$300.00
4. <u>Machine Maintenance</u>	Operations - Equipment Repair	1 x \$1,000.00	\$1,000.00
5. <u>Taps</u>	Operations - General Supplies	1 x \$100.00	\$100.00
6. <u>Cleaning Supplies</u>	Operations - General Supplies	1 x \$150.00	\$150.00
7. <u>Computer Numeric Control Router</u>	Capital Expense Fund	1 x \$20,000.00	\$0.00 ↓
8. <u>Repairs to VF-0 Computer Numeric Control VMC</u>	Capital Expense Fund	1 x \$3,500.00	\$3,500.00

#### Safety Equipment

1. <u>Racing Helmets</u>	Operations - General Supplies	1 x \$700.00	\$700.00
2. <u>Racing Safety Suit</u>	Operations - General Supplies	1 x \$800.00	\$800.00
3. <u>Racing Gloves</u>	Operations - General Supplies	1 x \$100.00	\$100.00
4. <u>Racing Shoes</u>	Operations - General Supplies	1 x \$200.00	\$200.00
5. <u>Fire Extinguisher Refills</u>	Operations - General Supplies	1 x \$150.00	\$150.00

#### Income

1. <u>Uber ATG</u>	Revenue - Donations, Grants, and Sponsorship <b>(Income)</b>	1 x <b>(\$10,000.00)</b>	<b>(\$10,000.00)</b>
2. <u>Boeing</u>	Revenue - Donations, Grants, and Sponsorship <b>(Income)</b>	1 x <b>(\$5,000.00)</b>	<b>(\$5,000.00)</b>
3. <u>Hyllion</u>	Revenue - Donations, Grants, and Sponsorship <b>(Income)</b>	1 x <b>(\$5,000.00)</b>	<b>(\$5,000.00)</b>
4. <u>Ford</u>	Revenue - Donations, Grants, and	1 x <b>(\$2,500.00)</b>	<b>(\$2,500.00)</b>

Sponsorship **(Income)**

5.	<u>Blue Origin</u>	Revenue - Donations, Grants, and Sponsorship <b>(Income)</b>	1 x <b>(\$2,000.00)</b>	<b>(\$2,000.00)</b>
6.	<u>Sandia National Labs</u>	Revenue - Donations, Grants, and Sponsorship <b>(Income)</b>	1 x <b>(\$1,000.00)</b>	<b>(\$1,000.00)</b>
7.	<u>Crowdfunding</u>	Revenue - Donations, Grants, and Sponsorship <b>(Income)</b>	1 x <b>(\$6,500.00)</b>	<b>(\$6,500.00)</b>
8.	<u>Team Dues</u>	Revenue - Other <b>(Income)</b>	80 x <b>(\$60.00)</b>	<b>(\$4,800.00)</b>

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**Finish Later**

**◀ Previous**