

# Equipment and Contingency Request Form - SS'23

**Student Activity Finance Board (SAFB)**

**Organization:** Formula Electric

**Number of Members:** 58

**Mission Statement:**

- i. Better understand electric vehicles and how to implement new technologies and techniques in a successful manner
- ii. Benefit students who desire the opportunity to apply knowledge from their coursework through practical applications
- iii. Design, build and competitively race an electric vehicle in Formula SAE Electric

## **Officer Contact Information**

**President:**

Name: Daniel Szanto

Email: dpsn2x@umsystem.edu

Phone (Optional): (417) 908-7113

**Treasurer:**

Name: Dylan VanBuskirk

Email: dlvkhh@umsystem.edu

Phone (Optional): (816) 944-6966

**Student Council Representative:**

Name: Dylan VanBuskirk

Email: dlvkhh@umsystem.edu

Phone (Optional): (816) 944-6966

**Advisor:**

Name: Dr. Mohammad Abbas

Email: m.abbas@umsystem.edu

Phone (Optional): 573-341-4884

**Equipment Details**

<b>Item</b>	<b>Energus Lithium Ion 18650s Li6p25RT</b>	
<b>Intended Use</b>	<b>For use in Formula Electric's FE-23 Battery</b>	
	<b>Price</b>	<b>Company/Link</b>
<b>Price (Primary Quote):</b>	<b>\$8,500.00</b>	<b>Energus, From Mizzou Formula Electric</b>
<b>Price (Secondary Quote):</b>	<b>€8569.50</b>	<b>Energus, for Li6pVTC6T (previous battery cells) + 4 month lead time</b>

<b>Item</b>		
<b>Intended Use</b>		
	<b>Price</b>	<b>Company/Link</b>
<b>Price (Primary Quote):</b>		
<b>Price (Secondary Quote):</b>		

<b>Item</b>		
<b>Intended Use</b>		
	<b>Price</b>	<b>Company/Link</b>
<b>Price (Primary Quote):</b>		
<b>Price (Secondary Quote):</b>		

<b>Item</b>		
<b>Intended Use</b>		
	<b>Price</b>	<b>Company/Link</b>
<b>Price (Primary Quote):</b>		

<b>Price (Secondary Quote):</b>		
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**Note:** All Items requested through the Equipment and Contingency fund must have at least two quotes to demonstrate that the requested items are being purchased at competitive prices from reputable sources.

Total Cost	Requested Funding (min. \$5000)	Percent Requested
\$8,500	\$8,500	100%

**Justification:**

Please describe, in detail, why this equipment is critical to the future of your organization with respect to your **mission statement** and the **requirements for Equipment and Contingency funding**, as defined below. Explain the benefits of this equipment, alternatives that exist, and how this equipment was selected. Attach additional pages if necessary.

**The purchase of these battery cells from Mizzou Formula Electric will be critical to the success of the team during the 2023 season. Not only will these cells allow the team to produce a running vehicle for the 2023 Formula SAE Electric competition, but these cells will also allow the team to learn how to create a car that can perform well dynamically, while also being competitive. The amount of knowledge and skill that will come from purchasing these batteries and competing dynamically in the Formula SAE Electric competition this summer, will be with the team for years to come. While there is the alternative to purchase these cells, or similar models, directly from the manufacturer, the 4-month lead time would mean that the Formula Electric team would have no reasonable path that would lead to the team being able to compete dynamically this summer. While there are other, much better, cells available on the market, these pre-assembled cells will fit in our team’s current battery design, and it would allow the team plenty of time to troubleshoot and correct any roadblocks as they may arise. By funding the purchase of these 18650 Lithium-Ion Cell modules, SAFB will be helping to enhance the chances of Missouri S&T Formula Electric becoming a competitive team at Formula SAE’s competition in June of 2023, and helping Formula Electric in its pursuit of becoming a competitive team at the Formula SAE Electric competition.**

Art. I, § B3, SAFB Code, amended SS'22  
*Equipment and Contingency Fund Fees – Funds available for purchases of equipment (of \$5000 or more) or unforeseen circumstances that are not otherwise in the budget of the organization requesting funds.*

**Signatures:**

We affirm that the above information is accurate, truthful, and complete to the best of our knowledge, and realize that any attempt at deception in the above records is grounds for

denial of funding for this period and future funding periods.

President:	Daniel Szanto
Treasurer:	Dylan VanBuskirk
StuCo Rep.	Dylan VanBuskirk
Advisor.	Mohammad Abbas 