



# HOPKINAUTS

The Mars Rover Team at Johns  
Hopkins University



2025-26  
**SPONSOR PACKET**



# ABOUT US

The Mars Rover Team at Johns Hopkins University is an interdisciplinary student organization dedicated to the design, construction, and operation of a functional Mars rover for the University Rover Challenge (URC). Founded in 2023, our team provides a platform for students from diverse academic backgrounds—including mechanical, electrical, software, and chemical engineering, as well as business—to apply their classroom knowledge to real-world engineering challenges.

## UNIVERSITY ROVER CHALLENGE

The University Rover Challenge is an international robotics competition organized by The Mars Society, in which student teams design and build Mars rovers to compete in a series of four missions mimicking NASA's Mars Exploration Rovers.

### Science Mission:

Evaluate a site's potential to support microbial life.

### Delivery Mission:

Transport tools and materials across rough terrain.

### Equipment Servicing Mission:

Test the rover's dexterity in manipulating mock lander hardware

### Autonomous Navigation Mission:

Autonomously navigate to a series of checkpoints while traversing obstacles and rough terrain along the way.

# MEET THE TEAM

---



Jayden Ma  
**President**



Mariam Husain  
**Vice President**



Sara Weinrod  
**Treasurer**



Thomas Gonzalez  
**Mechanical Lead**



Cyan Brown  
**Electrical Lead**



Katherine Hsu  
**Software Lead**



Sia Badri  
**Biochemical Lead**



Lauren Prieur  
**Business Lead**

# ONGOING PROJECTS –



## BASE

Our rover is built on a six-wheel suspension system designed to keep all wheels on the ground, even when driving over rough terrain. The wheels are custom-designed and 3D printed by our team.

## ARM

The mechanical arm on our rover is designed to lift and move objects with strength and precision. Its 5 degrees of freedom allows it to complete a wide range of tasks like picking up tools, flipping switches, or opening containers.



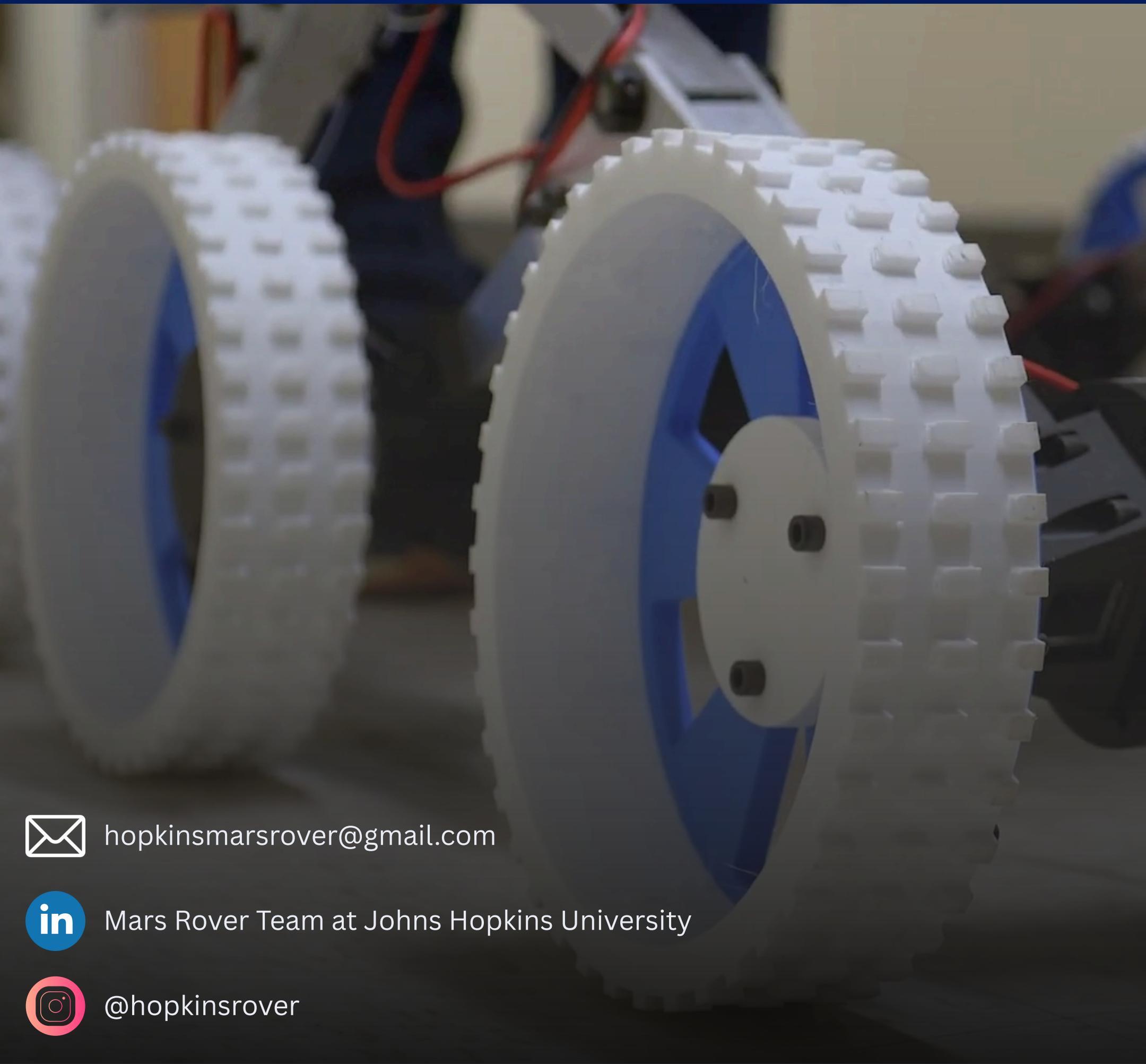
## SCIENCE BOX

For the science portion of the competition, our rover is equipped with a soil-sampling module that can dig beneath the surface and test for signs of life. These tests are designed to detect key indicators of life such as sugars and enzymes.

# SPONSORSHIP LEVELS

Benefits:	Spirit (\$600)	Curiosity (\$600-1200)	Perseverance (\$1200+)
Thank you letter	✓	✓	✓
Logo on website	✓	✓	✓
Social media highlight		✓	✓
Logo on rover		✓	✓
Logo on t-shirt			✓
Highlight on website			✓
Resume access			✓

**THANK YOU TO ALL OUR PAST  
AND PRESENT SPONSORS! YOUR  
ONGOING SUPPORT MAKES MARS  
ROVER TEAM'S SUCCESS POSSIBLE.**



✉ hopkinsmarsrover@gmail.com

 Mars Rover Team at Johns Hopkins University

 @hopkinsrover