

Worcester Polytechnic Institute

# High Power Rocketry Club



## Corporate Sponsorship Package



**WPI**

# Our Team

Under Worcester Polytechnic Institute's American Institute for Aeronautics and Astronautics (AIAA) chapter, the **WPI High Power Rocketry Club (HPRC)** is a team of passionate undergraduate engineering students devoted to the research and development of space launch vehicles, payloads, and space exploration.



Competitive rocketry demands a collaborative and intensive work environment.

Our members use this opportunity to apply the tools from their traditional classroom education to real-world engineering.

WPI HPRC follows the research, development, and documentation procedures set forth by NASA when constructing a launch vehicle and payload.



**WPI**

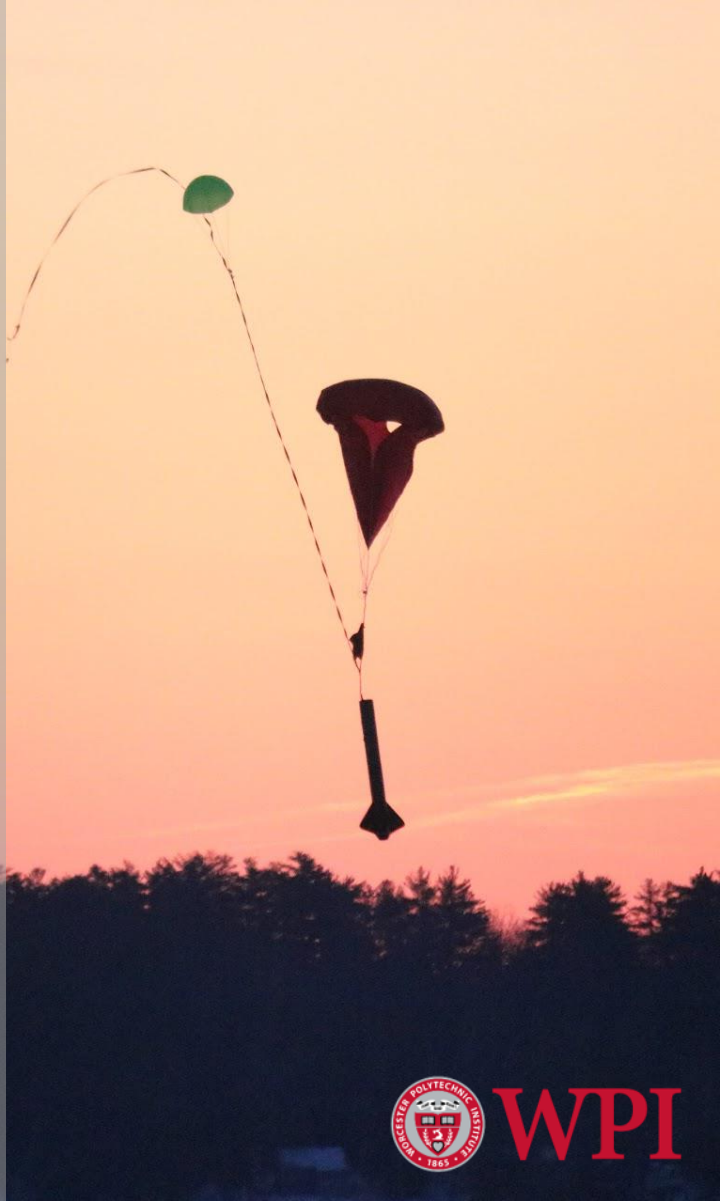


# Goals

The **project-based learning** approach at WPI is focused on holistic student development. We strive for success when participating in the annual **NASA University Student Launch Initiative (USLI)** competition. Our goals are to become innovative engineers, critical thinkers, and proficient communicators.

Our team officers organize and lead activities to educate the team members, such as workshops on 3D modeling and lessons on the engineering principles of rocketry.

These experiences and project milestones create valuable opportunities for team members to participate in mission design and execution.



**WPI**

# Outreach

One of the core values of our team is **engagement**; we make it a priority to reach out to younger students and encourage them develop both practical skills and an enthusiasm for STEM.



Our team is proud to be involved in programs including:

- ❖ Collaborations with other WPI engineering clubs and societies including the AIAA and the Women of Aeronautics and Astronautics (WoAA)
- ❖ The Civil Air Patrol
- ❖ Introduce a Girl to Engineering
- ❖ Mentoring programs at local elementary schools in Worcester, MA





# Competition Details

Up till April of 2021, we will be preparing to compete remotely in the **NASA University Student Launch** competition hosted at Marshall Space Center.

- ❖ Our task is to design and build a Level 2 rocket-payload system capable of reaching a predicted apogee.
- ❖ During the rocket's descent from apogee, the payload will be deployed between 500-1000 feet above ground.
- ❖ Upon landing, the payload will autonomously self-level and take a 360-degree panoramic photo and transmit the photo to the team.



**WPI**

## Platinum

\$5,000 or more

- ❖ Logo displayed prominently on full-scale rocket body and all official publications
- ❖ Availability of our team members for recruitment
- ❖ All the benefits of **Gold**

## Gold

\$2,500 or more

- ❖ Logo displayed on full-scale rocket fins and team apparel
- ❖ Regular project status updates
- ❖ All the benefits of **Silver**

## Silver

\$1,000 or more

- ❖ Logo displayed on social media pages
- ❖ Promotion during university outreach events
- ❖ Individualized virtual design review of our high-power rocket
- ❖ All the benefits of **Bronze**

## Bronze

\$500 or more

- ❖ Logo displayed on team website
- ❖ Use of team photographs and videos



# WPI High Power Rocketry Club Needs YOUR Support!

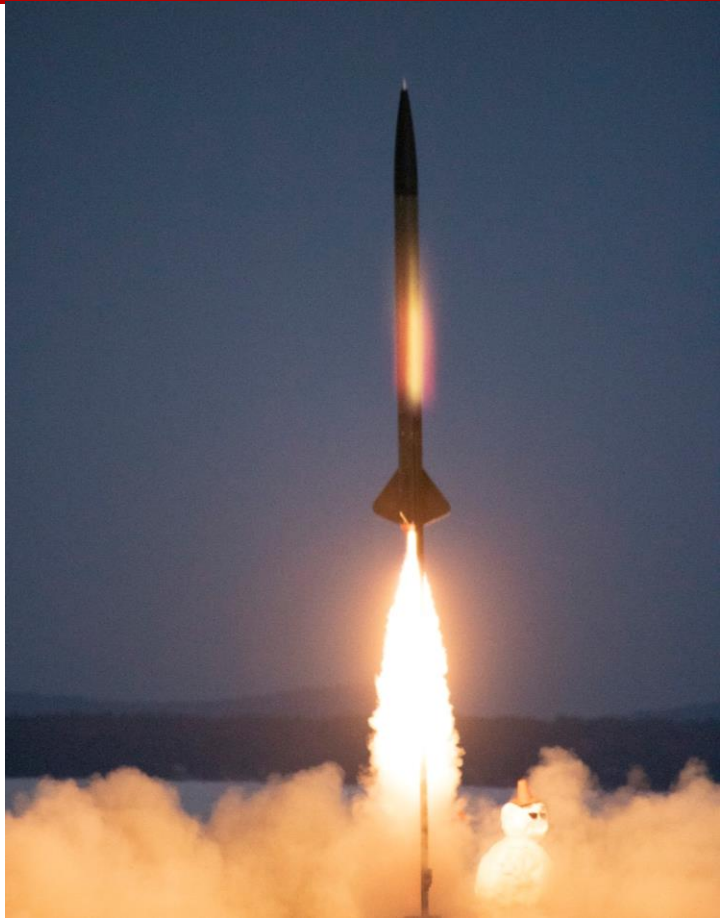
## Contact Information

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NASA USLI

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