DETechnologies

Memorial University of Newfoundland Faculty of Engineering and Applied Science

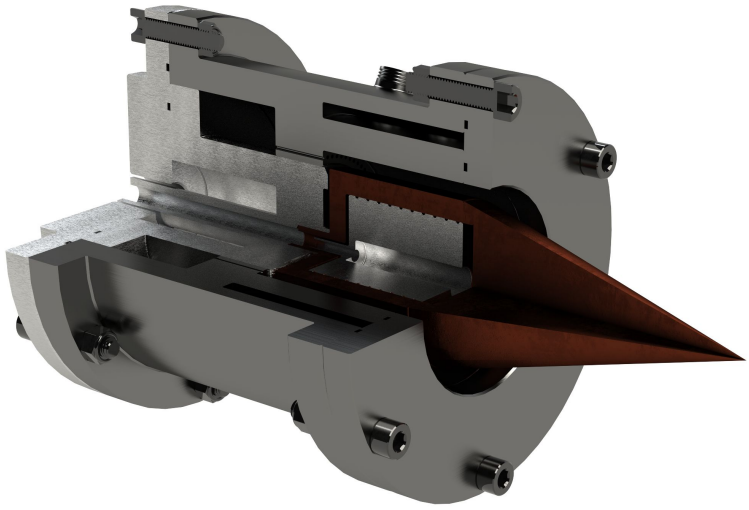
What is a Rotating Detonation Rocket Engine?

A Rotating Detonation Rocket Engine (RDRE) is a groundbreaking propulsion technology that harnesses supersonic combustion for a 25% more efficient combustion!

Why a RDRE?

At DETechnologies, our mission is to develop a modular RDRE driven by renewable fuels — paving the way for the future of green energy-fueled rocketry. RDREs have applications as;

- Launch Vehicle Propulsion
- Satellite Thrusters



Project Objectives

- Gas-Gas, non-premixed RDRE
- Multi-wave detonation control
- Modular design
- Maximize thrust
- Liquid cooled

Areas Seeking Support

We are preparing to begin manufacturing a fully functional prototype and are seeking support in the following areas:

- Testing Equipment/Laboratory Space
- Manufacturing Support
- Financial Support

Project Timeline

Theoretical Model Development
February 2023

November 2023
Start of Manufacturing

Testing & Validation
February 2024

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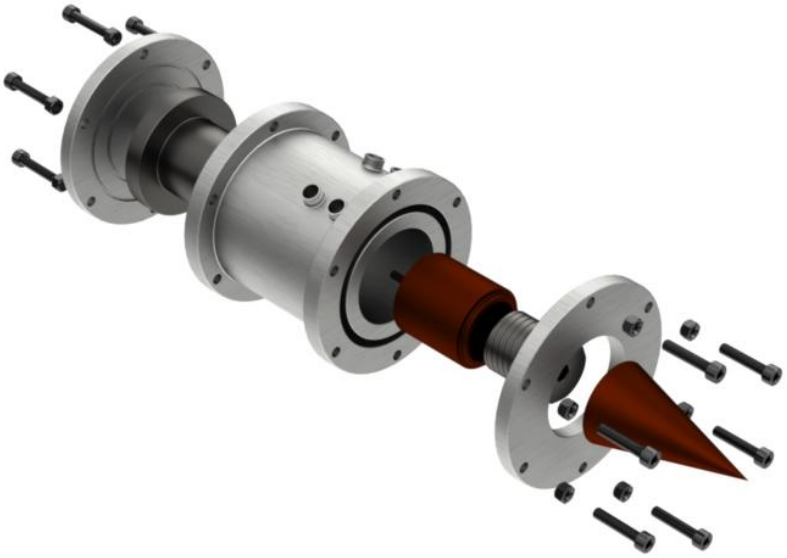
Support Levels

Manufacturing and testing budgets total **$150,000**, help us bring green rocketry combustion closer to a reality by supporting our work.

	Platinum	Gold	Silver
	$25,000 +	$15,000	$5,000
Private Demo Event	✓		
Commemorative 3D Printed Model	✓	✓	
Meet & Greet Event	✓	✓	✓
Logo size on Team Gear*	Large	Medium	Small

*Team gear includes all social medias & marketing materials



Contact Us!
DETechnologies@mun.ca
www.DETechnologies.ca

Meet the Team

We are a group of senior undergrad & grad students interested in pushing the Aerospace/Rocketry field closer to green energy, with our work on RDREs.

Shakib Miri

Logan Palmer

Aidan Clark

Patrick Cleary