



# 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!

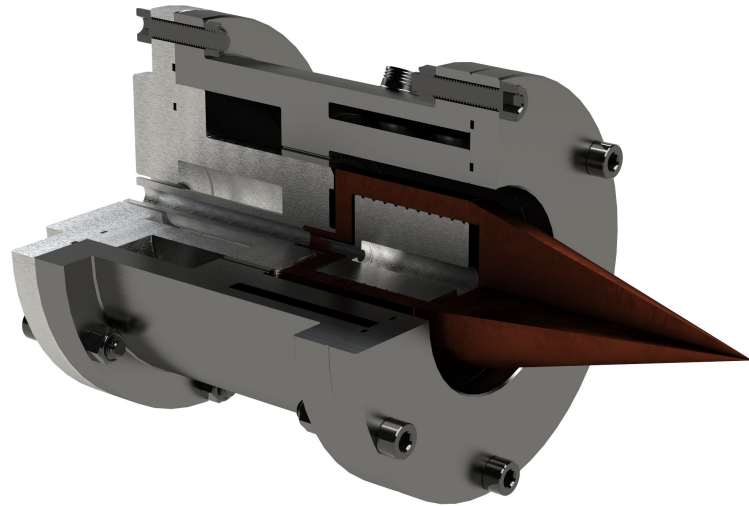
## Why a RDRE?

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





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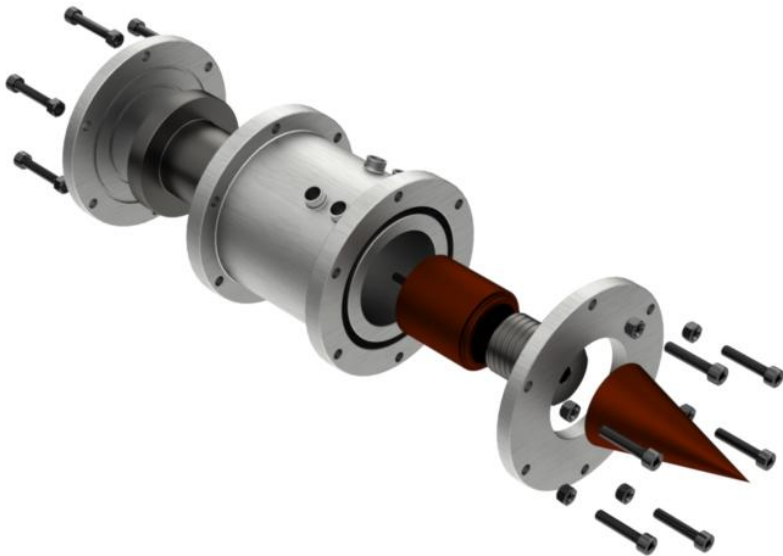
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## Support Levels

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