

## NASA Nuclear Canister for Space

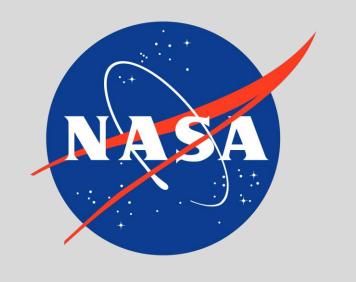
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**Objective** 

The objective of the project is to develop and test a canister to go into Big BUSTER and the SIRIUS Module to test nuclear fuel compounds for

thermal nuclear propulsion systems in the Transient Reactor (TREAT).

**Advisor: Dr. Hellstrom** 



types of nuclear fuels.

## **Background**

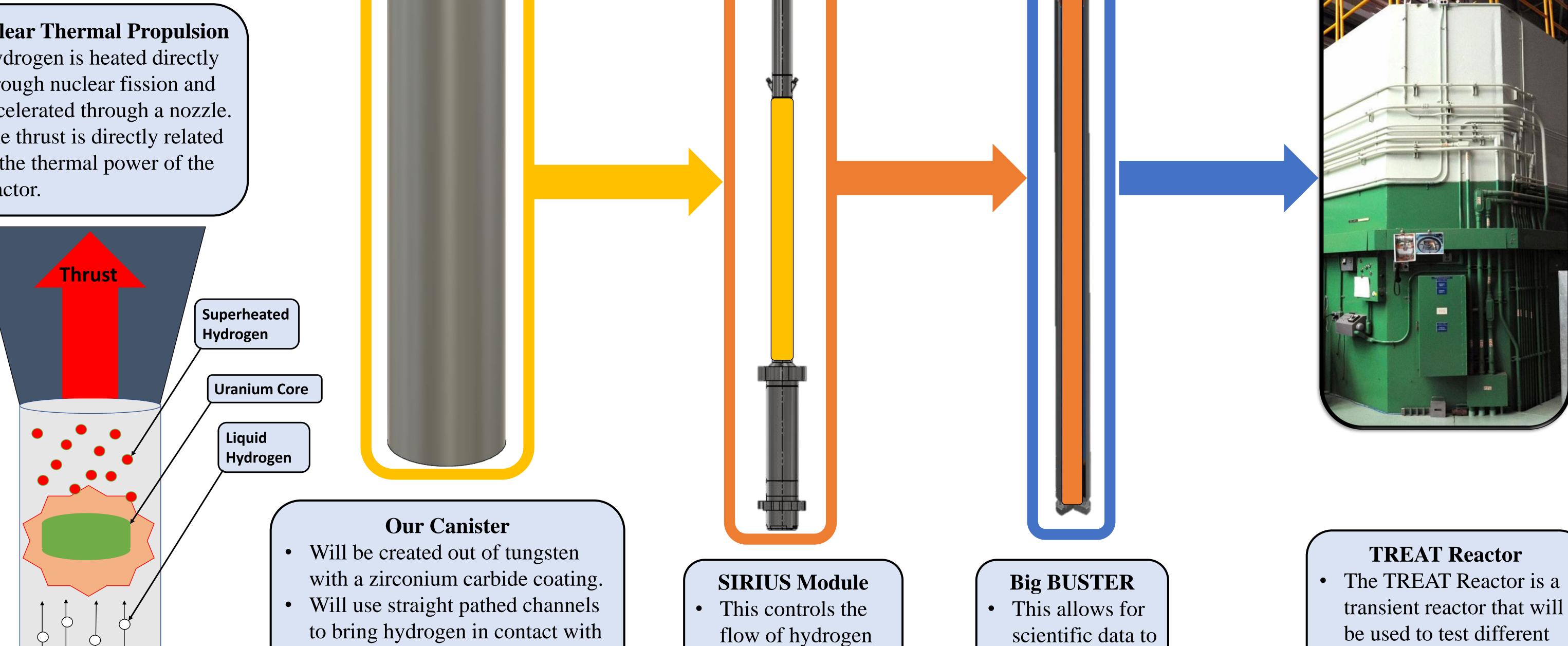
**Sponsor: Marvin Barnes** 

the nuclear fuel.

- NASA wants to send manned missions to Mars.
- Further research into **Nuclear Thermal Propulsion** engines could allow for faster and more efficient space travel.

## **Nuclear Thermal Propulsion**

- Hydrogen is heated directly through nuclear fission and accelerated through a nozzle.
- The thrust is directly related to the thermal power of the reactor.



to the canister.

be gathered.