## **Geothermal Manufacturing Prize**

**Prepared for** Ultra-High Temperature Logging Tool, Jeffrey Johnston

Sandia National Laboratory, Jiann-cherng Su, jsu@sandia.gov

**Objective:** To perform a laboratory test of the survivability of the logging tool at ultra-high temperatures AND provide assistance in the design and planning for the field test

Anticipated scope of work: Receive prototype tool from UHTLT team; design a tiered set of testing programs; perform tests and review data; aid in design and planning for the field test

## Tasks:

1. Design laboratory tests for prototype tool in consultation with team 2. Perform tests, one at 200°C, and one at 400°C. Others if considered necessary

3. Discuss results with team

4. Consult with team around opportunities for field test and DOE or other geothermal assets, consult with team on design and plans for field test. **Deliverables:** 

Report on test design and results

Su, Jiann-cherng <jsu@sandia.gov> To ● Taylor, Christopher; ● Kovacs III, William Cc ● Jeffrey Johnston; ○ Justin Scruggs</jsu@sandia.gov>	S Reply	🤲 Reply All	→ Forward	
		TI	nu 11/11/2021 6	:10
Chris,				
It was nice meeting you today and discussing your project. We have a version of the 9980 shown i	in the link below.			
https://www.thermalproductsolutions.com/product/blue-m-ultra-temp-standard-convection-over	n#pnlSpecs			
It should handle the 4.5" OD x 40" 3d printed part with some room to spare. We will probably hav have any questions.	e to come up with a plan for using	Nitrogen with it.	Let me know if yo	ou
-Jiann				

SNL Voucher Request: \$50,000

