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| **American-Made Geothermal Geophones Prize**  **SUBMISSION FOR CONCEPT!**  **PROJECT NAME**  Innovation tagline (e.g., your mission in a few words)  **TEAM**  Names, geographic locations, contact info, and LinkedIn profiles  **PARTNERS AND AMERICAN-MADE NETWORK SUPPORT**  Key project partners and organizations (if any)  The Connectors (up to 3) that significantly helped you advance your solution and the major items they helped with (if applicable) |
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Link to your 90-second video

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Made Solar Prize Official

Rules



#### *Video Pitch: showcase your idea in 90 seconds*

*Post your publicly accessible video online (e.g. YouTube, Vimeo, etc.). Be creative and produce a video that conveys the required information in exciting and interesting ways but do not focus on time consuming activities that only improve production values (i.e. technical elements such as décor, lighting, and cinematic techniques). The American-Made Network may be able to help you with creating your video.*

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| **Online Public Video—What is your innovation** | |
| **Suggested content you provide**   * How you intend to tackle the seismometer challenge. * How you will incorporate advances in the high temperature componentry space into your solution and why it’s transformational. * Who you are and why you have a competitive edge. * Creative content that conveys your submission in exciting and interesting ways. | **Required submission format**   * Ensure that your video is posted publicly online (e.g., YouTube, Vimeo) * The video should not exceed 90 seconds. |
| **The American-Made Network may be able to help you with creating your video.** | |

#### *THREE Question Written Narrative*

*Answer each of the following four questions:*

1. ***Innovation*** *-* What is your solution? How will you determine whether your solution has achieved success?
2. ***Team*** *-* Why is this the right team to solve this problem? What expertise is lacking and how will it be addressed?
3. ***Plan*** *– What is your plan to achieve your goals?*

*For convenience, these questions are provided in the headings of the tables on pages 3-6 along with suggested content (and corresponding judging statements) to help guide your responses. You decide where to focus your answers.*

*The individual answers to the three questions do not have a word limit, however, the* ***aggregate response to these three questions must not exceed 2,500 words****. You may also include up to ten supporting images, figures, or graphs. The judges will score the questions based on the content you have provided.* Table, figure, and image descriptions, as well as footnotes, do not count against word limit.***Responses should not be entered into the existing table format for each question*** *(Question tables may be deleted prior to submission).*

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| **Question 1:** ***Innovation***— What is your solution? How will you determine whether your solution has achieved success? | |
| **Suggested content you provide**   * Describe your innovation’s unique value proposition and how it will lead to a device that meets the design metrics listed in Section 3. * Define the design approach and specialized components required to manufacture the design. * Discuss critical components that may not be commercially available or hard to acquire. * Explain (provide analysis to support) how your solution will lead to reliable indefinite deployment in high temperature environments while collecting high resolution seismic data (according to specification in Section 3) high temperature seismometers * Specify expected performance goals and metrics relevant to your tool for design, prototyping, and testing **(see special instructions below).** | **Each statement scored on a 1–6 scale**   * The competitor identifies a critical failure point of down-hole seismometers at temperatures >225C * The design represents an innovative approach, built on reasonable assumptions, valid technical foundations, and lessons learned from other notable efforts in this space. * The planned design approach is reasonably ambitious and validates critical assumptions needed to advance the proposed solution. * The competitor provides compelling analysis that supports the efficacy of their proposed design to overcome critical failure points of seismic sensors deployed indefinitely at high temperature. * Performance improvement goals and metrics are verifiable, and aggressive but attainable. |

**Response to Question 1:**

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| **Question 2:** ***Team—*** Why is this the right team to solve this problem? What expertise is lacking and how will it be addressed? | |
| **Suggested content you provide**   * Introduce your team, explain how it came together, and highlight the knowledge and skills that make it uniquely capable of achieving success. * Highlight your team’s experience in high temperature tool and/or seismic sensor development and how you have applied it to your specific innovation. * Describe what drives your team to realize this solution. * Explain why winning the Phase 1 Contest will substantively change the likely outcome for the proposed solution. * Describe your efforts to advance your solution concept since the announcement of the prize contest or prior and highlight key milestones achieved. | **Each statement scored on a 1–6 scale**   * The team’s experience and track record demonstrates notable entrepreneurial qualities such as adaptability, creativity, decisiveness, and resourcefulness.      * The team’s drive, knowledge, and complementary skill sets provide a strong competitive edge toward realizing this solution in the near future. * Winning the Phase 1 Contest will significantly increase the team’s chances of creating a viable prototype. * A considerable amount of high-quality effort was put into defining and advancing the proposed concept. |

**Response to Question 2:**

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| **Question 3:** ***Plan***—What is your plan to achieve your goals? | |
| **Suggested content you provide**   * Describe where you stand in your solution’s development cycle and define goals for Phase 1 and 2 (based on the schedule listed in Section I.5) **(see special instructions below).** * Describe your team’s readiness to meet your goals; what resources provided by the contest will help meet your goals? * Provide a high-level budget and project management plan to meet your goals between the conclusions of the Phase 1 and 2 Contests, including how you will leverage program resources or other entities (include references to letters of support/commitment if applicable). | **Each statement scored on a 1–6 scale**   * The stated goals are ambitious, reduce risks and show a commitment to an accelerated development cycle. * Meeting the stated goals will demonstrate critical progress toward designing, fabricating, testing, and validating the functionality of this innovation. * The proposed plan is appropriate and logical in order to achieve the stated goals. * The proposed plan effectively uses resources available in-house or through this program to advance the innovation. |

**Response to Question 3:**

**Special Instructions for Questions 1 and 3:**

Though design documentation will be application-specific, documentation should clearly demonstrate the functionality and performance benefits of the proposed concept over conventional technology. The finalized (digital) design must prove that the team can meet the entry-level requirements for Phase 2. This documentation should include either design engineering and/or manufacturing analysis steps taken that support the submitted design basis. Example design engineering content includes: CAD model renderings, engineering calculations, and finite element analysis along with a description of the calculation basis.

Use only specific, measurable, achievable, relevant, and timely (SMART) outcome-based goals—not activity-based—so that a neutral third party can validate them (if possible).

* + For example: Demonstrate a definitive achievement of progress (e.g., achieve X% efficiency or X letters of interest signed); do **not** describe how you spent your time (e.g., provide a report, talk to customers, or perform experiments).
* Performance criteria can discuss planned improvements for tool, component, or equipment functionality, reductions in cost and manufacturing lead times, among other improvements as compared to the state of the art. All criteria cited should reflect input from international standards (e.g., ISO), peer-reviewed literature, or other verifiable benchmarking methods.
* In defining your SMART goals, include quantified, risk-reducing, meaningful, practical, and testable interim milestones
* SMART goals submitted for each phase application package should not be static. Teams should plan to assess and updates goals based on their own efforts and through relevant stakeholder feedback (e.g., possible investors, customers, and experts in the solution space).
* The American-Made Network may be able to help you to formulate your SMART goals.

#### supplementary Information

#### THREE question narrative word count: \_\_\_\_\_\_\_ total words

#### technical assistance request 2 pages, including images, will be made public

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| Provide a two-page description of the unique challenges and needs a national lab, private facility, and/or member of the American-Made Network could potentially help you resolve. The Prize Administrator will make this request broadly available so members of the American-Made Network can understand your needs and assist you through the voucher program or otherwise. |

#### sUBMISSION SUMMARY SLIDE A PowerPoint slide, will be made public

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| Make your own public-facing one-slide submission summary that contains technically specific details but can be understood by most people. There is no template, so feel free to present the information as you see fit. Please make any text readable in a standard printout and conference room projection. LETTERS OF COMMITMENT OR SUPPORT  Optional  |  | | --- | | Attach one-page letters (of support, intent, or commitment) from other relevant entities (e.g., potential users of the proposed innovation) to provide context. Letters of Support from partners or others that are critical to the success of your proposed solution will likely increase your score. General letters of support from parties that are not critical to the execution of your solution will likely not factor into your score. Please limit letters of support to one page each. | |
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