

2024 BIG Idea Challenge Proposal Scoring Matrix



Proposal Evaluation Criteria	Excellent	Very Good	Good	Fair	Poor	Missing
Technical Innovation (Max 30 Points)						
<ul style="list-style-type: none"> How innovative is the proposed solution? How well does the proposed technology advance the state of the art? How compelling are the proposed concept's goals and objectives? How well does the proposed concept align with NASA's Plan for Moon to Mars Architecture? 	30	24	18	12	6	0
Technical Credibility (Max 25 Points)						
<ul style="list-style-type: none"> Does the technology help solve a real problem? How feasible is the proposed technology? Is credibility of the proposed solution presented? Is the TRL advancement plan of the proposed technology viable? What level of risk is associated with development and verification of the concept? What is the risk mitigation plan? Has the team proposed a rigorous systems engineering approach? Has the team provided adequate descriptions of the supporting systems, fabrication processes and deployment methods along with basic loads analysis that attest to the proposed technology's feasibility? Does the proposal adhere to the required Design Guidelines and Constraints? Is the technology operationally resilient? (ability to withstand adverse circumstances and the harsh lunar environment, the capability to degrade gracefully) 	25	20	15	10	5	0
Technical Management (Max 20 Points)						
<ul style="list-style-type: none"> Is the cost plan, including cost feasibility, value, and risk adequate, thorough, and reasonable? Is the proposed implementation plan adequate and thorough? What is the probability of team success? [i.e., team expertise (including faculty and any industry support), access to required facilities, etc.] Has the team complied with all proposal requirements? (i.e., inclusion of all required sections, forms, and letters; and adherence to format and page count requirements). 	20	16	12	8	4	0
Performance Verification Testing Plan (Max 20 Points)						
<ul style="list-style-type: none"> How feasible is the verification & validation testing plan for the proposed technology? Is the team's proposed verification testing thorough? Does the planned testing environment adequately represent the lunar environment? 	20	16	12	8	4	0
Diversity, Equity, Inclusion and Accessibility (DEIA) Approach (Max 5 Points)						
<ul style="list-style-type: none"> Has the team adequately addressed DEIA considerations in implementing the values of a diverse and inclusive community to enhance the overall development of the proposed solution? Has the team demonstrated an effort to include various technical disciplines, cultural backgrounds, and underrepresented groups in the team composition? 	5	4	3	2	1	0
Bonus (Max 2 Points)						
<ul style="list-style-type: none"> Are any optional cost-sharing or partnerships identified with industry, other government agencies, non-profit labs, or other universities (including MSIs) that add value to the submission? 	2	0	0	0	0	0
TOTAL POSSIBLE POINTS FOR PROPOSAL (Max 102 Points)						

Assessment Criteria are listed on next page.

Assessment

Excellent = Criteria is fully met with exceptional merit, as documented by numerous or significant strengths and with no major weaknesses.

Very Good = Criteria is met with high merit and little errors; strengths fully out-balance any weaknesses and none of those weaknesses constitute fatal flaws.

Good = Criteria is met with a credible response and a few errors; strengths and weaknesses essentially balance each other.

Fair = Criteria is only nominally met and significant errors are apparent; weaknesses outweigh any strengths.

Poor = Criteria is not met and /or has serious flaws; one or more weaknesses constitute fatal flaws.

Missing = No effort was made to meet criteria.