



ISS NATIONAL LABORATORY*

INFORMATION REQUESTED FOR THE ONLINE STEP 2: FULL PROPOSAL FORM FOR THE TECHNOLOGY IN SPACE PRIZE – MASSCHALLENGE 2024

Proposals must be submitted electronically using the online proposal portal. This document lists the information requested on the online proposal form. Offerors are advised to work offline using the information contained in this document as a reference before entering information on the online form. Offerors must complete all sections of the online proposal form. Required information is indicated with a “Yes” in the “Required?” column.

| Information Requested | Required? | Description and char limit if applicable |
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| PAGE 1 | | |
| APPLICANT INFORMATION | | |
| Type of submission | Yes | Choices: New, Resubmission For resubmissions, offerors should ensure they have reviewed and incorporated feedback from their previous submission. |
| Principal investigator (PI) | Yes | List a single principal investigator (PI) who is a U.S. person that will be responsible to the offeror’s organization for the scientific and technical direction of the project. CASIS can only accept proposals from and award projects to U.S. persons (as defined below). The offeror may have non-U.S. persons on the team as subcontractors or participants, but the offeror’s organization (or Entity), the PI and the co-PI must all qualify as U.S. persons. |
| PI email | Yes | Provide the email address of the PI. An email address is required to submit a Step 2: Full Proposal. |
| PI phone | | Provide the offeror's telephone number. |
| PI position/title | | Provide the offeror's position or title. |
| PI citizenship status | Yes | A U.S. person is a natural person who is a lawful permanent resident as defined in 8 U.S.C. 1101(a)(20) or who is a protected individual as defined by 8 U.S.C. 1324b(a)(3). It also means any corporation, business association, partnership, |

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| | | society, trust, or any other entity, organization, or group that is incorporated to do business in the U.S. It also includes any governmental (federal, state, or local) entity. |
| Country of citizenship | Yes | Select the PI country of citizenship. If dual citizenship is held by the PI, please indicate the non-US country. |
| Attach PI Profile and Certifications Compliance Form (as one PDF file) | Yes | Complete the PI Profile and Certifications Compliance Form provided and attach signed PDF here. |
| Attach Co-PI Profile and Certifications Compliance Form(s) (as one PDF file) | | (If applicable) Complete the Co-PI Profile and Certifications Compliance Form provided and attach signed PDF here. |
| Contract manager | Yes | Provide the name of the contract manager. |
| Contract manager email | Yes | Provide the email address of the contract manager. |
| Project collaborator | | (If applicable) A collaborative proposal is one in which investigators from two or more organizations wish to collaborate on a unified research project selected under the same research announcement. Here, provide the name of the PI with whom you are collaborating along with the name of their organization (e.g., John Doe, Major University). |
| PAGE 2 | | |
| ORGANIZATIONAL INFORMATION | | |
| Organization legal name | Yes | Provide the name of the institution/organization at which the PI is employed. |
| Organization registration | Yes | Choices: U.S. Entity, Non-U.S. Entity |
| In which state is the organization incorporated/based? | | Identify the U.S. state or territory in which the company is registered. |
| Organization type | | Choices: Commercial, Academic, Government, Nonprofit |
| Organization address | Yes | Provide the address of the institution/organization. |
| Is the offeror's organization registered with SAM.gov? | Yes | Offerors seeking funds from CASIS must register with SAM.gov. To register, visit https://sam.gov/content/entity-registration . |
| Attach PDF copy of SAM.gov entity registration | Yes | Offerors must attach a PDF copy of the Entity Core Registration as part of their proposal submission. |

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| Organization Unique Entity ID | Yes | Unique Entity IDs (UEI) are issued by the U.S. General Services Administration (GSA) via the System for Award Management (SAM.gov). SAM registration is required to submit a Step 2: Full Proposal. 12 char limit |
| PAGE 3 | | |
| PROPOSAL SUBMISSION | | |
| Title of project | Yes | Provide a title for the proposed project. 255 char limit |
| Brief project description | Yes | In clear and concise layman's terms, provide up to three sentences that summarize the project. This description is for potential use in ISS National Lab and NASA external communications with the public and media. Do not use acronyms, jargon, abbreviations, or any proper names (including the name of the business/organization, or any trade or product name) in this brief project summary. 500 char limit |
| Key words | Yes | Enter the most relevant words which describe the proposed project. 255 char limit |
| Project objectives | Yes | In one or two paragraphs describe the technology advancement being addressed. State the main research or technology development question and the goal of the project, then describe the project objectives. Be sure to address the project relevancy to the ISS National Lab mission, why the proposed work requires microgravity or the space environment, and if the project builds on prior ISS research. (1,400-character limit) |
| Rationale for the ISS | Yes | Clearly describe where gravity is impeding progress on Earth, where space has been shown to produce relevant superior outcomes, and what properties are sought from in-orbit development. (1,000-character limit) |
| Commercial applications and other Earth benefits | Yes | Summarize anticipated project outcomes and their terrestrial value. Describe how successful results would contribute to potential future commercial applications and/or public benefits, noting the market size or projected reach. Identify the organization that will commercialize the resulting product and/or application and describe how the |

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| | | commercialization efforts will be funded. Please cite the sources for any market size numbers, market value, population affected, or other statistics. (1,400-character limit.) |
| Suppliers of support and/or commitment letters | | If the offeror has received letters of commercial support or letters of commitment from collaborators, list the names of those organizations (or individuals) here. The offeror must attach the letters of support to the main proposal pdf. |
| Implementation Partner | Yes | If a flight project is proposed, identify the Implementation Partner the offeror has selected for the project. |
| Describe if other Implementation Partner | | If your implementation partner is not in the above list, please enter their information here. 255 char limit |
| Does this proposal contain information and/or data that is subject to Export Administration Regulations (EAR)? (If yes, provide the ECCN in the follow-up question) | Yes | U.S. export control laws and regulations include, but are not limited to, the requirements of the Arms Export Control Act, 22 U.S.C.2751- 2799, including the International Traffic in Arms Regulation (ITAR), 22 C.F.R. 120-130.; and the Export Administration Act, 50 U.S.C. app. 2401-2420, including the Export Administration Regulations, 15 C.F.R. 730-774; including the requirement for obtaining any export license or other approval. |
| Provide the Export Control Classification Number (ECCN) | Yes, if selected | If the answer to the above question was yes, provide the Export Control Classification Number. The ECCN is a five-character alphanumeric key used to classify U.S. exports. By selecting Yes, the submitter shall ensure all pages of this proposal are properly annotated. |
| Does this proposal contain information and/or data that is subject to the International Traffic in Arms Regulations (ITAR)? (If yes, provide the USML Category in the follow-up question) | Yes | U.S. export control laws and regulations include, but are not limited to, the requirements of the Arms Export Control Act, 22 U.S.C.2751- 2799, including but not limited to the International Traffic in Arms Regulation (ITAR), 22 C.F.R. 120-130. |

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| Provide the United States Munitions List (USML) category | Yes, if selected | If answered yes to the question above, provide the United States Munitions List (USML) Category (85 FR 4136) for the product. (Dropdown of categories will be listed.) |
| Total project budget (\$) | Yes | The total cost of the project. This number will be the total for Total All Sources (Cell G49) in the Budget Summary tab of the budget template completed by the offeror. |
| ISS National Laboratory funding requested (\$) | Yes | The amount of funds the offeror requests of the ISS National Lab to cover internal project costs related to payload development. This number will be the total for ISS National Lab Funding (Cell G44) in the Budget Summary tab of the budget template completed by the offeror. |
| Does the offeror's organization have an approved indirect rate agreement with a U.S. government agency? | Yes | CASIS shall recognize and apply to all grant agreements any approved federally recognized indirect cost rate that has been negotiated between the offeror and a U.S. government agency. If the offeror's organization has such an indirect rate agreement, attach written evidence of its existence in the proposal PDF file. |
| For this proposal, what indirect cost rate (percentage) is being used? | | Enter the indirect rate used in the calculations in the project budget (Excel) template. This is taken from item #7 on the Budget Summary tab of the ISS National Lab Budget Template. |
| Attach the project budget (as one Excel file) | Yes | The project budget is a required submission. It must be submitted as an Excel file and follow the same format as the budget template provided. See the Budget Section of the solicitation proposal instructions for details. |
| Attach the proposal (Affix the provided <u>signed</u> cover page to the proposal and include all required attachments not already uploaded above. Submit proposal and all remaining attachments as one PDF.) | Yes | Required attachment to the proposal not uploaded separately are: Cover page template, biographical sketch, literature cited, Preliminary Experiment Requirements Document (P-ERD), Implementation Partner Statement of Work, Data Management Plan, Approved Indirect Rate Agreement (as applicable), Copy of Institutional Animal Care and Use Committee (IACUC) Approval (as applicable), Vertebrate Animal and Higher Order Cephalopod Section (VACS) (as applicable), and SAM.gov Registration. Additional proposal attachments to append to the PDF file may include: letters of |

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| | | support, Iterative Research Multiple Flight Questionnaire, and supporting plans and technical data. |
| Additional applicant comments | | Optional: In the space provided, enter any necessary comments pertaining to the proposal submission. 1400 char limit |