



# International Space Station

*National Lab Opportunities*



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# National Lab Opportunities

- National Lab uses of ISS are different from NASA uses in two significant ways
  1. The research objectives are defined by the mission of another government agency or private firm
  2. Normally, the funding for National Lab users comes from other government agencies or private firms and not from NASA
- There are multiple opportunities which can be applied to for researchers to get their payload to the ISS
  1. NNH09CAO0030 - National Lab Opportunity for the Use of the ISS by Domestic Entities Other than US Federal Government Agencies
    - Open through December 31, 2014
  2. NNH10CAO001K – Broad Agency Announcement Enabling Support Equipment and Services for ISS as a National Lab
    - Open through December 31, 2011
  3. Work with other government agencies is arranged via MOU's with NASA

# National Lab Opportunities

- NNH09CAO0030 - National Lab Opportunity for the Use of the ISS by Domestic Entities Other than US Federal Government Agencies
  - ⌘ Open through December 31, 2014
- Intent of this announcement is to provide a way for the private researcher (commercial, university, non-profit, etc) to submit a proposal to perform research on ISS
- Proposals are evaluated on approach, benefit to the public, and financial commitment and business plan
  - ⌘ Approach includes overall merit, feasibility, suitability and relevance to R&D that access to ISS provides – priority is placed on concepts that create substantial increases in the current state-of-the-art
  - ⌘ Benefit to the public includes development of future products and services, contribution to US industrial capacity or economic growth, and increase in fundamental knowledge
  - ⌘ Financial commitment and business plan covers financial commitment, how the effort contributes to existing business plans, identifies non-US government market potential, roadmap to bring the product or service to market, plans for launch and return of research
- Selected proposals are awarded a Space Act Agreement

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- NNH10CAO001K – Broad Agency Announcement Enabling Support Equipment and Services for ISS as a National Lab
  - ✧ Open through December 31, 2011
- Intent of this announcement is to provide a way for the private researcher (commercial, university, non-profit, etc) to submit a proposal to help enable ISS as a National Lab
  - ✧ Payload Integration and Operations Support Services
    - Advanced payload integration systems to enable utilization of ISS for a broad range of research and technology development
    - Emphasis on systems or processes that would enable new areas of research or production not currently available
    - Support services may include project-specific integration and operations support on an as needed basis in response to specific requirements as they emerge
  - ✧ Support Equipment and Instrumentation
    - Concepts that advance the capabilities of the ISS such as providing standard interfaces that simplify and enable multiple research areas
    - Expand the on orbit capabilities to allow for in-situ analysis and evaluation of payload results
    - Expand the on orbit capabilities to allow for more sophisticated operations on board

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- Proposals are evaluated on
  - Relevance to the National Lab
    - Effort is applicable to the thrust areas and enables a National Lab product or process, leads to a useful addition to the NL portfolio, is within the funding availability
  - Overall scientific and technical merit
    - Approach is feasible, technical team capable of delivering, facilities are appropriate
  - Potential contribution to the National Lab
    - Magnitude of potential contributions, potential transition paths to enhance commercial NL capabilities, extent to which any intellectual property rights limitations create a barrier to transition
  - Program management (if over \$1M)
    - Expertise of management team, schedule is realistic, key personnel support major tasks/activities
  - Cost realism
    - Realistic assumptions, demonstrate an understanding of technical goals and objectives, cost sharing plan (if any)
- Selected proposals are awarded a contract, grant, cooperative agreement or Space Act Agreement