
Scan the code to register
S10
Pre Application
Webinar
July 8
1-2:30 pm

Housekeeping Issues

- Slides will be posted on the Office of Research Infrastructure Program (ORIP) website
- For technical difficulties, please email Ms. Allison Hurst at ahurst@scgcorp.com
- We encourage you to submit your questions throughout the webinar using Q&A

Overview of the Webinar

- New: Seed Instrumentation Support Program, PAR-27-021
- Update: Shared Instrumentation Grants Program, PAR-27-022
- FY27 Submission Due Dates and Considerations
- Q&As – All

PAR-27-021 Seed Instrument Support (SIS)



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PAR-27-021 Seed Instrument Support (SIS)

Q: We are trying to develop a research program in a new field. We do not have a large userbase and/or a large pool of NIH funded investigators. How do we get funding for an instrument we do not have?

A: The new S10 Seed Instrument Support (SIS) program!

This Notice of Funding Opportunity (NOFO) aims to build new research capacity by supporting the purchase of a single commercially available biomedical research instrument currently **unavailable in the institution**. Instruments funded through this program must be shared among the users to **create new research opportunities**, enable reproducible data generation, encourage collaborative research and training, and strengthen long-term research capabilities.

Why SIS?

- For research-intensive institutions, emphasis is placed on acquiring new or emerging technologies currently unavailable in the institute to enable innovative and novel research

- For low-resource institutions (e.g., R15-eligible institutions that have not received more than $6 million per year in NIH funding in 4 of the last 7 federal fiscal years), the focus is on building foundational research capacity, expanding the biomedical research workforce, and supporting sustainable, long-term research programs. Institutions applying under this category will clearly justify their low-resource status in the application.

New S10 SIS NOFO Budget Information

SIS Minimum : $50,000

SIS Maximum : $400,000



The SIS program will provide up to $400,000 for the purchase of the instrument. This is the maximum amount of federal support, but we encourage your institution to cost share if you would like to acquire an instrument with a price >$400,000

SIS Requirements

- Applicant organizations may submit only one application, provided that the type of instrument does not currently exist in the applicant organization (identified by UEI).

- A minimum of two NIH-funded users must be identified, with at least one of the NIH-funded users must be from the applicant institution.

- An itemized quote from the vendor with appropriate academic discounts and warranty terms (specified directly in the quote) is required and must be included in the application

The SIS Application

- Standard SF424 (R&R) Application Guide requirements apply
  - Project Summary/Abstract and bibliography
  - Equipment (manufacturer, model number, specific features, and accessories)
  - An itemized quote (with discounts and warranty terms)
  - Funds for accessory containment equipment for the instrument may be requested if human, animal, or infectious materials are to be analyzed.
  - Biohazards should be addressed if relevant

Applications without a valid quote will not be responsive and will be withdrawn

- Required attachments
  - **Instrumentation Plan**
  - Letters of Support

SIS Page Limitations

Section	SIG
Introduction to Resubmission (if applicable)*	1
Justification of Need	2
Technical Expertise	1
Research Projects including summary tables	3
Administration	2
Institutional Commitment	1
Overall Impact/Benefit	1

- Letters of Support and Bibliography Section are not included in the page limitations.

* All FY2027 Applications to the SIS program are new and there will be no introduction section, this is only for resubmissions.

Justification of Need

This is where you justify the need. This section should contain the following :
-Name of the instrument
-Comparison to similar instruments on the market,. And why this one was chosen
-Justify the need for specific features and special accessories
-Explain the anticipated usage time (# of hours) and number of supported projects

Explain how the acquisition of this instrument will act as a catalyst for new research directions/programs, help create new research opportunities, develop expertise, grow research capacities, and expand research activities for long-term success.

-Justify the need for any requested software.
Note: Stand alone workstations, duplicate software/licenses are **not** allowed

-If available, include preliminary data (but not required)

Any request for a leased instrument should be discussed with NIH before application submission.

Technical Expertise

- Describe the technical expertise of the person who is responsible for the safe operation and maintenance of the instrument
- Describe how new users will be trained.
- If sample prep is complex, describe the expertise of the person who is helping with this
- Describe any technical support for data collection, management, storage and analysis

If an innovative instrument providing new research capabilities is requested, demonstrate the special technical expertise needed for increasing its adoption in biomedical research. Describe training for the investigators on using the novel technology to advance their research.

Research Projects and Summary Tables

- How will the requested instrument advance users' research projects?

- Describe each user's projects and how they will benefit from the instrument. Describe their estimated hours of usage
  - Don't just copy specific AIMS

Summary Table

Supply a table with the following information:

User Name – Grant Number if NIH supported or Funding Source-brief project title-grant start and end dates – estimated usage hours

At the bottom of the table, state the total usage hours, and the % of usage hours dedicated to NIH funded projects

Administration

- **<u>Describe how the instrument will help grow a sustainable research program!</u>**
- Describe where the instrument will be located, how it will be managed, how time will be allocated among users
- List the members of the advisory committee:
  - should include users and non-users
  - should include a person to represent the institutional financial commitment
  - PI can be a non-voting member
  - Chairperson should not be a user or the PI
  - Should be at least 4 people

- Provide a plan for how users will be reminded to cite the S10 award in any publications

- Describe the financial plan for long term maintenance and operations.

Institutional Commitment

- Describe the institutional support in terms of forstering a research program, people, space, and $

Overall Impact/Benefit

- Explain how the instrument will impact NIH-funded research and contribute to the long-range research goals at your institue

Letters of Support

- Letters from institutional official in support of the application.

  * Explicitly state that the requested technology is not available at the institution

- Letters stating financial commitment of the institute

- Letters from biosafety official stating the proposed biosafety plan has been reviewed and adheres to institutional regulations

SIS Grant Review and Selection Process

SIS Grants are subject to the same 2 tiered review process as other S10s

- **Initial peer review and review criteria**
  - Evaluation by Scientific Review Group(s) convened by the Center of Scientific Review, including Justification of Need, Technical Expertise, Research Projects, Administration, and Institutional Commitment
  - All SIS applications will be reviewed in the same study section
- **Review by Council of Councils**

❑ Factors considered for making funding decisions

- Scientific and technical merit of the grant.
- Co-funding interest and availability of funds.
- Relevance of the proposed project to program priorities.
- Types of supported instruments and geographical distribution of awards.
- Impact of the instrument on the institutions research programs and future growth potential

SIS for Instrument Upgrades?

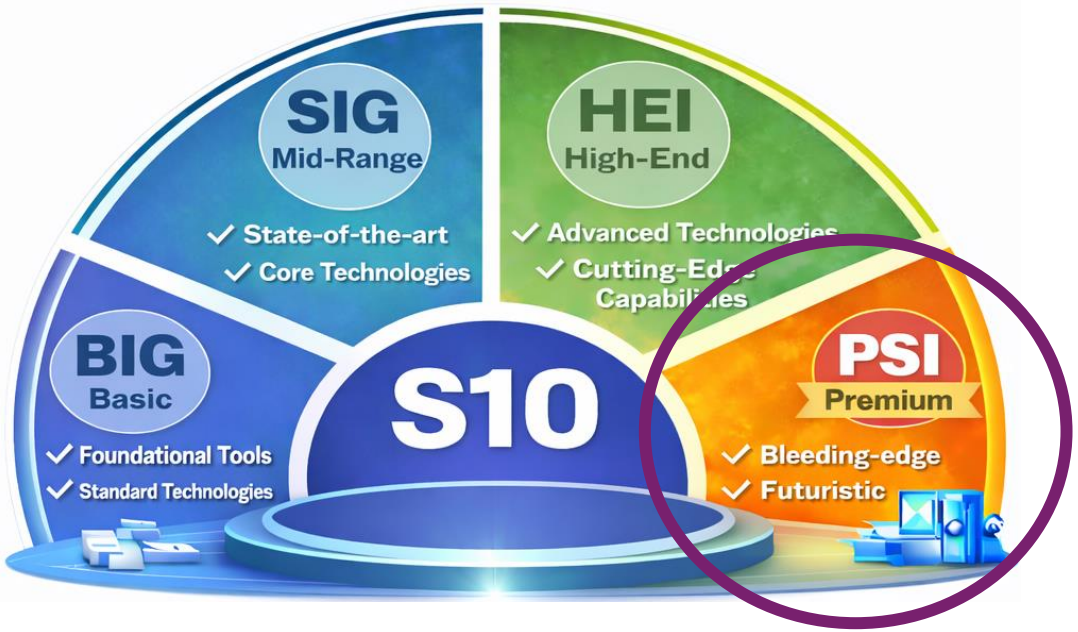
Q: We have a 2-channel confocal and want to add a 3rd channel, are we eligible for the SIS program?

A: Yes, technically, the S10 mechanism does allow for upgrades, if you are adding a new capability that you currently do not have at your institution, you are eligible.

However

Eligibility does not imply competitive. You need to think about where the application is meeting the goals of the NOFO. Incremental upgrades may not review as well as introduction of new technologies.

PAR-27-022 Shared Instrumentation Grants



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Shared Instrumentation Grant (SIG) Program (S10 Clinical Trial Not Allowed)

Shared Instrumentation Grant (SIG) Program

- **Support the acquisition of commercially available, state-of-the-art scientific instruments to be used on shared basis**

- **Consolidates three existing shared-use instrumentation programs,**

  - **the Basic Instrumentation Grant program, PAR-24-326**
  - **the Shared Instrumentation Grant program, PAR-24-265**
  - **the High-End Instrumentation Grant program, PAR-24-264**

Submission Deadline
June 1, 2026

Q: We have submitted application to PAR-24-326, PAR-24-264, or PAR-24-265 with June 1, 2026, submission deadline. Should we submit again to PAR-27-022?

Q: Will CSR review these applications?

SIG Program (PAR-27-022)

- The minimum award is $300,000. There is no cap on total cost of the instrument; however, the maximum award is $5,000,000.

- **Premium S10 Instruments (PSI)**

Eligibility Information

- Program requirements:
  - A single PD/PI with skills, knowledge, relevant expertise, and resources necessary to carry out the proposed research. The PD/PI does not need to have an NIH research grant or any other research support or the user of the instrument.
  - An institution must identify at least three Major Users, each with active NIH research award, who can demonstrate a substantial need for the requested instrument. These Major Users can be from the same or different departments, divisions, or schools at the applicant institution, or from nearby or regional institutions.

- Eligible institutions include domestic public and private institutions of higher education, nonprofit domestic institutions, and such as health professional schools and research organizations, and for-profit organizations

Additional Eligibility Information

- Multiple applications are allowed provided each application is for a distinct instrument type.

- All NIH-funded users should use the instrument at the level of at least **65%** of the Accessible Usage Time (AUT).

Premium S10 Instruments

- Instruments that are priced higher than current HEI.
- Instrument must have regional/national impact (used by at least 3 institutions).
- Encourage collaboration and cross-cutting research.
- Cost sharing is expected.
- Funding decisions will prioritize instruments with ICO co-funding support.

Cost Sharing for S10 Programs

- Cost sharing is not required for an instrument that costs $2,000,000 or less in direct cost.
- For PSI, NIH encourages a minimum of 60% in cost sharing. While there is no upper limit for the instrument cost, the maximal NIH support is $5,000,000.
- Source of the budget, not supported by NIH, should be clearly documented.

Funding Restrictions

- Support for technical personnel, service contracts, extended warranties, software, and supplies are NOT allowable.

- Renovation of space to house the instruments is NOT allowed.

Special Use Instrument (SUI)

- In rare special circumstances, when an institution cannot justify sole use of the instrument for NIH-supported and other biomedical research.
- The activities supported by SUI include research in other fields, curricular instructions, and billable clinical care.
- Eligible for instruments that costs more than $1 million in direct costs.
- Cost sharing is expected, and the non-NIH funds are expected to be at least 25% of the total instrument price and 50% usage time for biomedical research.
- The institution must also provide specific long-term plans to secure and protect access to the instrument for biomedical researchers.
    - ➢ **Consult with your PO in advance for a SUI**

Instruments Not Supported By The S10 Programs

- Instruments that are not commercially available and/or do not have a manufacturer warranty*
- Multiple instruments bundled together unless justifiable as an integrated system
- Multiple stand-alone workstations for data processing or data storage systems
- Equipment such as autoclaves, hoods, equipment to upgrade animal facilities

*Foreign-made instruments are allowed

Structure of the Application

- Standard SF424 (R&R) Application Guide requirements apply
  - Project Summary/Abstract, Project Narrative, and bibliography
  - Equipment (manufacturer, model number, specific features, and accessories)
  - An itemized quote (with discounts and warranty terms)
  - Funds for accessory containment equipment for the instrument may be requested if human, animal, or infectious materials are to be analyzed.
  - Biohazards should be addressed if relevant

- Required attachments
  - Instrumentation Plan
  - Letters of Support

Required Attachments (*Contd…*)

- Instrumentation plan (Upload as a single pdf file)
  - Introduction to resubmission (if applicable)
  - **Justification of Need**, comparison with other available Instruments, demo Instrument and preliminary data, and the Accessible Usage Time (AUT) calculations
  - **Technical Expertise** from PI and other key personnel (technical assistant, users and advisory members)
  - **Research Projects**, including basic, translational, or clinical research
  - Summary Tables re-stating AUT in hours
  - **Administration**, including
    - location, time allocation between users, strategies to maximize utilization of the instrument, advisory committee, and acknowledgment of S10 in publications
    - Financial Plan, operation, and maintenance of the requested instrument, and anticipated income, if any
  - **Institutional Commitment**
  - Overall Impact/Benefit

- Letters of Support
  - Institutional Official Committing Proposed Financial Plan, and list of previous S10 awards
  - Biosafety Official

https://orip.nih.gov/sites/g/files/mnhszr376/files/Table_S10_awarded_within_past_five%20years_performance.xlsx

Page Limitations

Section	SIG
Introduction to Resubmission (if applicable)	2
Justification of Need	3
Technical Expertise	2
Research Projects	12
Summary Table(s)	3
Administration	3
Institutional Commitment	2
Overall Impact/Benefit	2

- Letters of Support and Bibliography Section are not included in the page limitations.
- Be sure to name the attachments and follow page limits per NOFO instructions

Senior/Key Person Profile

- Standard SF424 (R&R) Application Guide Instructions Apply
  - Biosketches for the PD/PI, Major Users, Other Users, and Key Technical Personnel, as applicable.
  - Current & Pending Support for the PD/PI at the time of application submission.

Advisory Committee

- Composition of Advisory Committee (AC) – optimal number of members
  - Institutional Senior Official
  - Chair
  - Non-users of the instrument
  - Users of the instrument
  - PI cannot be a voting member or a chair of the AC

- Responsibilities of the AC members include,
  - Strategies to maximize the utilization of the instrument
  - Strategies to ensure acknowledgement of S10 grant in publications
  - Financial plan for the long-term operation and maintenance of the instrument
  - Conflict resolution
  - Relocation of the instrument within or outside the institution
  - Change of the PI/ instrument

- The PD/PI and the AC should convene meetings and issue annual reports on the instrument status, including their recommendations for the instrument operations.

Instruments under Lease Agreement

- Request for instruments under lease agreement is **strongly discouraged**.

- Request for leased instruments must provide a strong justification for the federal funds requested. The approved amount should factor in depreciation adjustments.

- In addition, include justification that the instrument remains the state-of-the art, and NIH can support only up to the fair market value at the time of Just-In-Time (JIT).

- Execution of a purchase order or agreement, making a down payment or other formal commitment to purchase the equipment prior to award will automatically eliminate an applicant from eligibility for an award.

➢ **Consult with PO in advance if leasing is considered. A lease without consultation with Program may not be approved.**

S10 Grant Review and Selection Process

❑ Two level review process for an S10 grant

- **Initial peer review and review criteria**
  - Evaluation by Scientific Review Group(s) convened by the Center of Scientific Review, including Justification of Need, Technical Expertise, Research Projects, Administration, and Institutional Commitment
  - Impact score
- **Review by Council of Councils**

❑ Factors considered for making funding decisions

- Scientific and technical merit of the grant.
- Co-funding interest and availability of funds.
- Relevance of the proposed project to program priorities.
- Types of supported instruments and geographical distribution of awards.

Additional Factors

❑ Priority Areas

- Instruments that support high priority NIH research areas such as human-based research studies, new approach methodologies (NAMs), artificial intelligence, and other scientific topics with national impact.

- Instruments that represent novel/emerging technologies or those that produce physical or mechanical outputs other than conventional digital data, such as bioprinting systems for NAMs, laboratory robots for reproducible research operation, and/or electromagnetic radiators for treatment of human diseases.

A0 vs. A1

- Resubmission (A1) allowed.
- A new (A0) application submission or resubmission before the issuance of the summary statement for an overlapping A0 or A1 is NOT allowed
- An application that has substantial overlap with another application pending appeal of initial peer review

S10 NOFOs Other Information

Applications Not Responsive to S10 NOFO: The following types of requests are not responsive to S10 NOFO:

- Instruments or integrated systems that are not commercially available or lack a manufacturer warranty.
- Multiple Instruments unless they are justified as an integrated system in the application.
- More than one stand-alone workstation for data processing, multiple software licenses, and duplicate software items.
- Software, unless it is integrated in the operation of the instrument and/or necessary for generation of high-quality experimental data from the instrument.
- Research equipment to furnish a research facility (such as autoclaves, hoods, equipment to upgrade research facilities) or general-purpose equipment (such as standard machine shop equipment), equipment for routine sustaining infrastructure (such as standard computer networks or general-purpose data storage systems).
- Instructional equipment used solely for teaching purposes.
- Disposable devices, office furniture, and supplies.
- Alteration or renovation of space to house the instruments.

Applications proposing such requests will be considered non-responsive and will not be reviewed or considered for funding.

Applications without a valid quote will be deemed incomplete and will be withdrawn from review.

FY27 Submission Considerations



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SIS {PAR-27-021} Submission Due Dates

Application Due Dates			Review and Award Cycles		
New	Renewal / Resubmission / Revision (as allowed)	AIDS - New/Renewal/Resubmission/Revision, as allowed	Scientific Merit Review	Advisory Council Review	Earliest Start Date
September 25, 2026	September 25, 2026	Not Applicable	March 2027	May 2027	July 2027
July 01, 2027	July 01, 2027	Not Applicable	October 2027	January 2028	May 2028
July 01, 2028	July 01, 2028	Not Applicable	October 2028	January 2029	May 2029

New SIG {PAR-27-022} Submission Due Dates

Application Due Dates			Review and Award Cycles		
New	Renewal / Resubmission / Revision (as allowed)	AIDS - New/Renewal/Resubmission/Revision, as allowed	Scientific Merit Review	Advisory Council Review	Earliest Start Date
July 27, 2026	July 27, 2026	Not Applicable	October 2026	January 2027	March 2027
July 01, 2027	July 01, 2027	Not Applicable	October 2027	January 2028	March 2028
July 01, 2028	July 01, 2028	Not Applicable	October 2028	January 2029	March 2029

Only PSI S10s are accepted in FY27.

Other Considerations

For NOFO PAR-27-022:

- If you already submitted under PAR-24-326 (BIG), PAR-24-265 (SIG), **do not** submit under PAR-27-022
- Due date for FY27 is 7/27/2027.
- If your High-End Instrument submitted under PAR-24-264 that has regional or national impact, you may consider submitting under PAR-27-022. Note, only one application will be proceeded to review.
  - Multiple submissions under each institution is allowed. However, only one application under each instrument type can be submitted.
  - Do not withdraw your submitted application under PAR-24-264 before submission under PAR-27-022.
  - Notice the differences in page limits.
- Request funding for alteration or renovation of space to house the instruments is not allowed.

For NOFO PAR-27-021:

- Due date for FY27 is 9/25/2027.
- Describe your institution's resource status.
- Only one application per institution under this NOFO is allowed.
- Explain how the instrument will help institution to develop a sustainable research program.
- Institutional letter of support to certify the non-existence of the requested instrument.

Applications without a valid, itemized quote will be deemed incomplete and will be withdrawn from review.

Office Hours & Q&As

