

2015 NIH S10 Program:  
Shared Instrumentation Grant  
High End Instrumentation Grant  
Program changes

# Budget

- Shared Instrumentation Grant (SIG):  
\$50,000 - \$600,000.
- High End Instrumentation Grant (HEI):  
\$600,000 - \$2,000,000.

# Required Administrative Elements

- Annual Advisory Committee meetings and reports
- Definition and justification of Accessible User Time (AUT)
- Inventory of other similar instruments, including justification/documentation for why these are not available to the PI and user group
- 5 year financial plan
- Institutional support for backup of the financial plan for 5 years from installation of the instrument or for its effective lifetime
- Annual instrument reports for 5 years after award

# Accessible User Time (AUT)

- **AUT is new concept**
- Defined as the number of annual hours the instrument can be used for any research purpose.
- Need to justify AUT for proposed instrument based in individual situation at applicant institution.
- Applies to both SIG and HEI

# Types of Support

- The program awards funds for purchase or upgrade of a single item.
- Requested equipment must be commercially available.
- Requested equipment must be for research purposes only.
- Foreign-made equipment is eligible for purchase with S10 funds.

# Not funded by the S10 program:

- An instrument with a base cost of less than \$50K for SIG, or less than \$600K for HEI.
- Multiple instruments bundled together, or a series of complementary related instruments.
- Software, unless it is integral to operation of a piece of equipment.
- Instruments used for clinical (billable) care.
- General purpose equipment.
- Proposals to advance design of existing technology or to develop new instrumentation.

# Reporting: Instrument Performance

- Each year, **Vanderbilt must submit a table** including the following for all S10 awards from previous 5 years:
  - Current instrument status
  - Actual Accessible User Time (AUT)
  - Status of maintenance agreement
  - Number of publications citing the S10 award
  - Explanation for any instrument that is non-functional
- OOR collects this via annual survey effort

# Instrument Performance Report Example

S10 Grant Number	Year of Award	PD/PI's Name	School - Department	Shared Resource or Core Facility (if applicable)	Generic Name of Instrument	Current Instrument Status	Approximate Hours Used Per Year	Status of Maintenance Agreement	Number of Publications Citing the S10 Award - Updated June 2014
1S10RR025677-01	2009	SANDERS, CHARLES R	SOM - Biochemistry	NMR Center	Console for 800 MHz NMR Spectrometer	In use	7,500	Not under service agreement. The warranty period has expired. This instrument is maintained by Dr. Markus Voehler, Biomolecular NMR Facility Manager. When parts or service from the manufacturer are required they are paid for through user fees.	55
1S10RR026828-01	2009	PISTON, DAVID W.	SOM - Molecular Physiology & Biophysics	Advanced Computing Center for Research & Education (ACCRES)	Multiprocessor computer cluster	In use	>6,570	Under service agreement. Plus self-insurance on much of the infrastructure.	225
1S10RR026809-01	2009	BAUDENBACHER, FRANZ	SOE - Biomedical Engineering	n/a	Fluorescence Imaging System	In use	400	Not under service agreement. Managed and maintained by the PI.	4
1S10RR025649-01	2009	PISTON, DAVID W.	SOM - Molecular Physiology & Biophysics	Cell Imaging Shared Resource	Confocal Microscope (LSM710)	Traded-in	2,800	Under service agreement.	337 See Comment #3
1S10RR024610-01A	2009	LINK, ANDREW J	SOM - Pathology, Microbiology & Immunology	n/a	Mass Spectrometer (LTQ-OribtrapXL)	In use	7,872	Not under service agreement. Self-maintained and in good working order.	15
1S10RR025524-01	2009	WEBB, DONNA J	A&S - Biological Sciences	n/a	Spinning Disk Confocal Microscope (Quorum WaveFX-X1 spinning disk confocal system with a Yokogawa CSU-X1 spinning disk)	In use	3,500	Not under service agreement. It is self-maintained, the PI works closely with the manufacturer which provides priority access to service and discounted labor and replacement parts.	12
1S10RR029523-01	2010	GORE, JOHN C	SOM - Radiology & Radiological Sciences	Center for Small Animal Imaging	Magnetic Resonance Imager (Bruker Biospec 15T MRI system)	In use	1,500	Not under service agreement. Maintenance agreements are not typically available for Bruker systems. We maintain using in-house engineers.	1 See Comment #2
1S10RR027977-01	2010	CROWE, JAMES E	SOM - Pediatrics	Flow Cytometry Shared Resource	Five-Laser Flow Cytometry Analyzer (Fortessa LSRII)	In use	1,500	Under service agreement.	242
1S10RR027396-01	2010	PRINCE, LAWRENCE S	SOM - Pediatrics	Cell Imaging Shared Resource	Confocal Microscope - LSM 710 (Carl Zeiss)	In use	2,200	Under service agreement.	337 See Comment #3
1S10RR027764-01	2010	RODEN, DAN M	SOM - Medicine (Clinical Pharmacology Division)	Vanderbilt Technologies for Advanced Genomics (VANTAGE)	Automated System for Nucleic Acid Purification (QiaSymphony)	In use	390	Under service agreement.	66
1S10RR027033-01	2010	ROBERTSON, DAVID HERLIE	SOM - Medicine (Clinical Pharmacology Division)	n/a	Echocardiograph	In use	800	Not under service agreement. Self-maintained.	14
1S10RR027661-01	2010	SOUTHARD-SMITH, E MICHELLE	SOM - Medicine (Genetic Medicine Division)	n/a	Episcopic Fluorescence Image Capture System (EFIC)	In use	50	Not under service agreement. Self-maintained.	2



# Reporting: Final Progress Report

- At the end of Funding Year 1, the PI must submit a Final Progress Report, including the following:
  - List of users, their funding and hours of use
  - List of publications
  - Narrative describing impact
  - Report from Advisory Committee  
(new requirement)

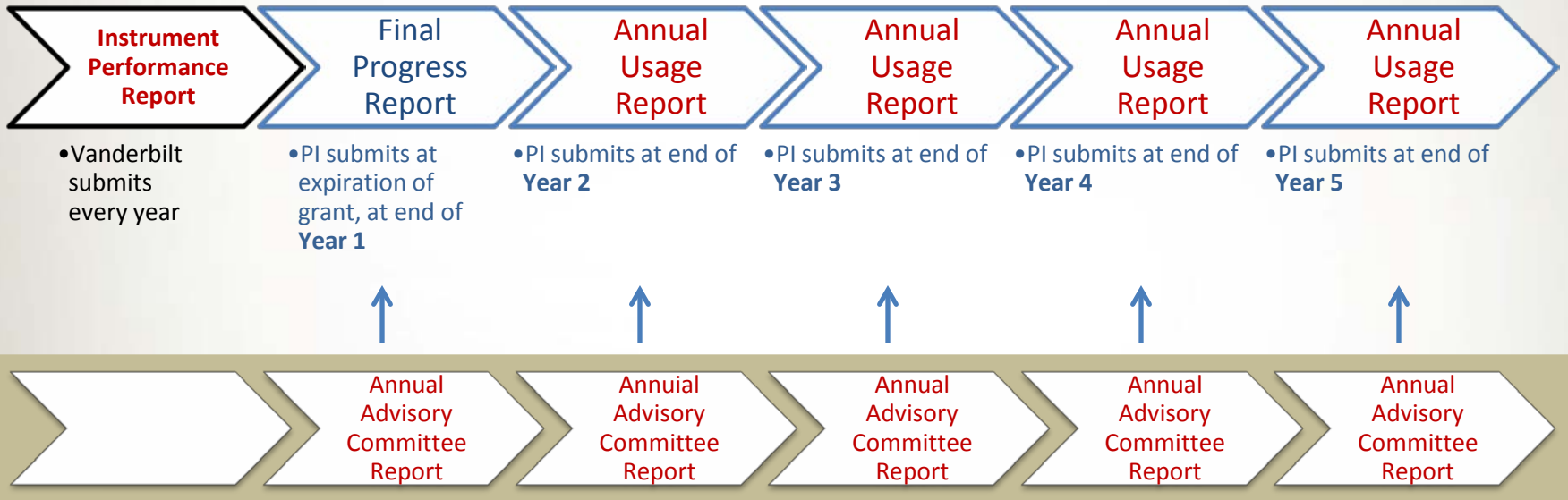
# Reporting: Annual Instrument Usage Report

- **New Requirement**
- At the end of Year 2, the PI must submit a Usage Report, similar to the Final Progress Report and including the Advisory Committee Report.
- The NIH Scientific Research/Contact staff will provide specific instructions to grantees prior to the due date for report.
- First awards to require this new report were made in 2014.

# Summary:

## S10 Reporting Requirements

### Submitted to NIH:



In red: New requirements

# Special Use Instrument (SUI)

- Applies to High End Instrumentation program only.
- If institution cannot justify sole use of high-end instrument for NIH-supported and other biomedical research.
- The institution must contribute portion of the purchase cost commensurate with proposed non-biomedical research use.
- Non-biomedical research activities may include research in other fields, curricular instructions, and billable clinical care.
- Contact the Office of Research before considering application for SUI.

# PI Check List

## If an existing award 2014 or later:

- Coordinate with core facility to organize annual instrument advisory committee meetings if not already occurring.
- Collect information for use in Final Progress and Annual Usage Reports, including annual report from the instrument advisory committee.
- Coordinate with Office of Research on publications data.
- Submit annual reports to NIH as instructed by the program office.

## If planning a new S10 proposal:

- Review the RFA :
  - SIG: <http://grants.nih.gov/grants/guide/pa-files/PAR-15-088.html>
  - HEI: <http://grants.nih.gov/grants/guide/pa-files/PAR-15-118.html>
- Submit an internal proposal on-line: <https://redcap.vanderbilt.edu/surveys/?s=7TYHYTJ93E>
- Seriously consider collaboration with a core facility
- Obtain a written statement of support from PI (or core) department or center, committing to provide backup of the equipment financial plan for 5 years from installation of the instrument or for its effective lifetime.
- Contact the Office of Research with any questions about eligibility, institutional commitments, reporting, Special Use Instrument option.

# Questions?

- Contact Susan Meyn in Office of Research with any questions about the S10 program.

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