

COR SAT Historical Listing

Solicitation Year	Technology Development Title	Principal Investigator	Org	Start Year, Duration	TRL Entry	TRL Current	TRL Exit	Science Area	Tech Area
SAT2010	High performance cross-strip micro-channel plate detector systems for spaceflight experiments.	John Vallerga	UCB	FY2012, 4 years	4	-	4	UV	Detector
SAT2010	20:15Enhanced MgF2 and LiF Over-coated Al Mirrors for FUV Space Astronomy	Manuel Quijada	GSFC	FY2012, 3 years	3	-	4	UV	Optical Coating
SAT2010	Advanced UVOIR Mirror Technology Development for Very Large Space Telescopes	H. Philip Stahl	MSFC	FY2012, 3 years	3	-	3	UVOIR	Optics
SAT2011	Improvement of the Performance of Near-Infrared Detectors for NASA Astrophysics Missions: Reducing the Sub-1% Detector Effects	Selmer Anglin	Teledyne	FY2013, 1 year	4	-	4	Dark Energy	Detector
SAT2011	H4RG near-IR detector array with 10 micron pixels for the Wide Field Infrared Survey Telescope (WFIRST) and Space Astrophysics	Bernard Rauscher	GSFC	FY2013, 1 year	4	-	4	Dark Energy	Detector
SAT2011	Kinetic Inductance Detector Imaging Arrays for Far-Infrared Astrophysics	Jonas Zmuidzinas	JPL	FY2013, 3 years	3	3	-	Far-IR	Detector
SAT2011	Ultraviolet coatings, materials and processes for advanced telescope optics	Kunjithapatham Balasubramanian	JPL	FY2013, 3 years	3	-	4	UV	Optical Coating
SAT2011	High Efficiency Detectors in Photon Counting and Large Focal Plane Arrays for Astrophysics Missions	Shouleh Nikzad	JPL	FY2013, 3 years	4	-	4	UV, Optical	Detector
SAT2012	A Far-Infrared Heterodyne Array Receiver for CII and OI Mapping	Imran Mehdi	JPL	FY2014, 3 years	3	-	4	Far-IR	Detector
SAT2012	Deployment of Digital Micromirror Device (DMD) Arrays For Use In Future Space Missions	Zoran Ninkov	RIT	FY2014, 3 years	4	4	-	UV	Detector
SAT2012	Advanced Mirror Technology Development Phase 2	H. Philip Stahl	MSFC	FY2014, 3 years	3	3	-	UVOIR	Optics
SAT2014	Raising the Technology Readiness Level of 4.7-THz local oscillators	Qing Hu	MIT	FY2016, 3 years	3	3	-	Far-IR	Detector
SAT2014	Building a Better ALD - use of Plasma Enhanced ALD to Construct Efficient Interference Filters for the FUV	Paul Scowen	ASU	FY2016, 3 years	3	3	-	UV	Optical Coating
SAT2014	Development of Large Area (100x100 mm) photon counting UV detectors	John Vallerga	UCB	FY2016, 2 years	4	4	-	UV	Detector
SAT2014	Advanced FUVUV/Visible Photon Counting and Ultralow Noise Detectors	Shouleh Nikzad	JPL	FY2016, 3 years	3	3	-	UVOIR	Detector
SAT2014	Ultra-Stable Structure: Development and Characterization Using Spatial Dynamic Metrology	Babak Saif	GSFC	FY2016, 4 years	3	3	-	UVOIR	Stable Structure
SAT2015	High-Efficiency Continuous Cooling for Cryogenic Instruments and sub-Kelvin Detectors	James Tuttle	GSFC	FY2017, 3 years	3	3	-	Far-IR	Cooling System
SAT2016	Predictive Thermal Control Technology for Stable Telescope	H. Philip Stahl	MSFC	FY2017, 3 years	3	3	-	UVOIR	Optics

Notes: SAT2013 was not solicited. Durations listed include approved no cost extensions if applicable.