U.S. GENERAL SERVICES ADMINISTRATION (GSA) – ASTRO

November 15, 2021 – November 14, 2026, plus an additional 5-year option period

Summary:

GSA has established a broadly scoped series of contract vehicles that encompass the services supporting or involving the operations, maintenance, readiness, research, development, and systems integration associated with manned, unmanned, and optionally manned platforms and/or robotics for land, air, sea, and/or space.

ASTRO Pools and Metrica's Contract:

ASTRO services are organized into 10 functional pools, with the appropriate pool selected at the task order level based on the solicitation requirements. Metrica, Inc. is an ASTRO Prime Contractor in the Research Pool (NAICS code 541715), Contract # 47QFCA22D0376. TRACLabs, Inc. is Metrica's affiliate and its teammate on this contract. The Research Pool allows for both open competitive bids and small business set-asides.

Task Order Contract Types:

Task orders may include multi-year or option periods, performance-based procedures, classified and/or unclassified, and commercial and/or non-commercial items. ASTRO allows for all contract types or combinations of contract types at the task order level, including:

- Fixed-Price (all types)
- Cost-Reimbursement (all types)
- Time-and-Materials
- Labor-Hour

ASTRO FAQs:

Funding Ceiling: ASTRO has no ceiling.

Sole Source: Allowed, as long as one of the exceptions to fair opportunity as listed in FAR subparts 16.505(b)(2)(i)(A) through (F) applies.

Source Selection Procedures: Streamlined procedures found at FAR 16.505 govern the ASTRO ordering process; FAR 15.3 source selection procedures are not applicable.

Ordering Procedure Summary:

The ASTRO master contract was awarded and will be administered by the ASTRO Program Office as a part of the Federal Systems Integration and Management Center (FEDSIM). Task orders may be solicited, awarded, and administered by Ordering Contracting Officers (OCOs) possessing a Delegation of Procurement Authority (DPA) issued by the ASTRO Program Office. Direct use of the ASTRO contracts is limited to the GSA's Office of Assisted Acquisition Services (AAS), including FEDSIM and AAS Regional Office employees possessing ASTRO DPAs.

Points of Contact:

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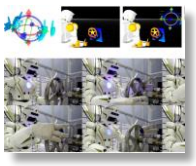
ABOUT METRICA AND TRACLABS

Established in 1984, Metrica is a U.S. Small Business Administration-certified Women-Owned Small Business (WOSB) dedicated to providing a range of professional services to Government and corporate clients in the areas of Information Technology, Professional Consulting, and International Logistics. Metrica is a Minority Business Enterprise (MBE) certified by the National Minority Supplier Development Council (NMSDC). Metrica's approach to quality control earned it an ISO 9001:2015 Quality Management System certification in June 2020. Metrica has a Top Secret facility clearance.

TRACLabs, Inc. was established in 1997 as a division of Metrica, Inc. and has been a Metrica affiliate since 2007. Thus, TRACLabs has 25 years of experience conducting world-class robotics, automation, and artificial intelligence research for NASA, the DoD, and the commercial sector. The pioneering work of its strong team of engineers and scientists serves many industries and is currently in use from the deepest oceans to the International Space Station. Team members come from diverse backgrounds and have earned international recognition for their research. TRACLabs' Software Development Center is located in Houston, Texas, near the Johnson Space Center.

TRACLabs personnel have delivered breakthrough technologies and services. Examples include:



CRAFTSMAN

CRAFTSMAN is a ROS-based tool suite for creating task-based robot control interfaces for manipulation and navigation. It uses a powerful technique for encoding task definitions called Affordance Templates. The development of CRAFTSMAN has been supported by over a dozen small-business grants from NASA and the DoD. CRAFTSMAN has also been installed in automotive manufacturing facilities. It allows non-robotics experts to design and use cutting-edge user interfaces and control software for robotics systems, and it seamlessly supports a variety of supervisory modes, from full teleoperation to full automation.

PRIDE

The PRIDE Software Suite consists of four modules for electronic procedure authoring, execution, monitoring, and analysis. Initially developed for NASA, it is currently used by NASA for ground operations on the VIPER project. PRIDE has been commercialized as a spin-off product and is currently used by several firms in the energy sector, covering thousands of installed instances of the software.

DRC

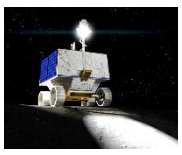
Team TRACLabs developed control software and human-robot interfaces for the Boston Dynamics ATLAS humanoid robot as part of the DARPA Robotics Challenge (DRC), finishing 4th in the 2013 Virtual Robotics Challenge, 6th in the 2013 DRC Trials, and 9th out of 23 international teams in the DRC Finals in 2015. Team TRACLabs was the only small-business-led team to advance to the Finals and was described by *WIRED* magazine as "Scrappy Underdogs" for competing well with teams from MIT, JPL, CMU, Korea Advanced Institute of Science and Technology (KAIST), and IHMC, among others.

PHARAOH

The PHARAOH project integrated the PRIDE electronic procedure software with CRAFTSMAN's robot control capabilities to help guide an operator through a complex procedure involving robotic assets. It also demonstrated how to use the automation capabilities of both packages.

VALOR

VALOR is exploring virtual and augmentation reality environments for first responder training and operations. This multi-year collaboration between TRACLabs, NIST, and the Houston Fire Department incorporates immersive simulations with real-world objects and advanced user interface displays.



VIPER

The VIPER mission, currently scheduled to land on the moon in late 2024, will search for water ice near the lunar south pole. TRACLabs personnel are involved in the on-board and ground-based rover software, the ground data systems, and the operator interface.