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FEDSIM

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

November 15, 2021 – November 14, 2026, plus a 5-year option period of November 15, 2026 – November 14, 2031

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. TRAC Labs, 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, 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:

GSA ASTRO website:

<https://www.gsa.gov/assisted-acquisition-services/acquisition-process/astro>

ASTRO Contract Specialist and Program Manager:
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ASTRO Contracting Officer: Jessica Miller

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Email: astro@metricanet.com

Corporate headquarters: 100 N.E. Loop 410, Suite 520, San Antonio, TX 78216

TRAC Labs, Inc. website: <https://traclabs.com>

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Corporate ASTRO Contract Manager: Peggy Schildt

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ABOUT METRICA AND TRACLABS



Established in 1984, Metrica is a family-owned small business 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's approach to quality control earned it an ISO 9001:2015 Quality Management System certification in June 2020, which was renewed in 2023 and 2026.



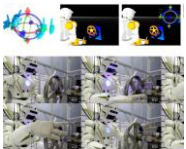
TRAC Labs, Inc. was established in 1994 as a division of Metrica, Inc. and has been a Metrica affiliate since 2007. Thus, TRAC Labs has over 30 years of experience conducting world-class robotics, automation, and artificial intelligence research for NASA, the DoD, and the commercial sector. The pioneering 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. TRAC Labs' Software Development Center is located in Houston, Texas, near the Johnson Space Center.

TRAC Labs personnel have delivered breakthrough technologies and services. Examples include:



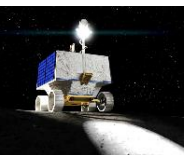
PRIDE

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. The PRIDE Software Help Center has a Technical Support Desk that is staffed by seasoned professionals ready to assist with any queries, troubleshoot issues, and optimize your application of our technology; it can be reached at <https://trac labs.atlassian.net/servicedesk/customer/user/login?destination=portals>.



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.



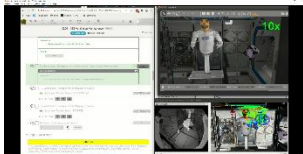
VIPER

VIPER is a lunar rover that will be tasked with prospecting for lunar resources in permanently shadowed areas of the Lunar south pole region. NASA uses the PRIDE electronic procedure system for all VIPER ground procedures during mission operations. TRAC Labs personnel are involved in the on-board and ground-based rover software, the ground data systems, and the operator interface.



CAMBR

CAMBR uses the CRAFTSMAN toolkit to build a digital twin of an industrial robot and subsequently create custom toolpaths for a given production item (propeller blade). Computer vision techniques detect defects on the surfaces of the blade, which are then used to tailor the grinding speed profile so that defects are removed in fewer passes.



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 TRAC Labs, NIST, and the Houston Fire Department incorporates immersive simulations with real-world objects and advanced user interface displays.



RUM

RUM uses the CRAFTSMAN toolkit to enable coupled control of underwater remotely operated vehicles and manipulator payloads within a single platform-agnostic, unified operator interface. It streamlines and standardizes complex underwater tasks, reduces the complexity of control stations, and minimizes the number of system operators required.