ATTACHMENT A

STATEMENT OF WORK

for

"Gas Cylinders & Liquid Nitrogen / Helium"

2026

The Ames Laboratory (referred to as "Laboratory") conducts fundamental and applied research that helps the world to better understand fundamentals of chemistry, physics, and materials science. The Laboratory translates that knowledge into new and unique materials, processes, and technologies that advance the nation's energy and economic competitiveness and enhance national security. To facilitate this work effort, the Laboratory requires a reliable source of high-quality compressed scientific gases, as well as liquid nitrogen and liquid helium.

The objective of this Statement of Work is to procure gas cylinders and liquid nitrogen and helium on an as-needed basis and to procure materials that are the highest purity, quality, and quantity requested. It is imperative that the Supplier(s) meet the Laboratory's requirements and expectation, as outlined below.

The Supplier shall provide all personnel, equipment, tools, materials, management, operations, supervision, other items and logistic support as defined in this SOW for delivery and removal of gas cylinders, and liquid nitrogen and helium. The Supplier shall provide to the Laboratory the type and size of the compressed gas cylinders, dewars, and liquid nitrogen / helium as listed below on an as-needed basis.

(Please Note: Below is a preliminary list of gases and liquid nitrogen. As the work effort advances over time, gases may be added or removed)

Ames Lab ID	Item Description	Est. Annual Quantity	Inventory U/M
0330275	Gas, Air Breathing, Industrial Grade, Size 200, Supplier owned, 225 CF	50	CYL
0330355	Gas, Argon, HP Grade, 99.995%, Size 200, Supplier owned, 280 CF	250	CYL
0330398	Gas, Argon, UHP Grade, 99.999%, Size 300, Supplier owned, 331 CF	250	CYL

0330400	Gas, Argon, Industrial Grade, 99.995%, Size 200, Ames, 280 CF	40	CYL
0330442	Gas, Argon, Industrial Grade, 99.995%, Size 300, Supplier Owned,331 CF	120	CYL
0330900	Liquid Argon, 99.999%, Supplier Owned, 230 Liters, Dewar	12	DEWAR
0330600	Argon HP6000 6 pack cradle, 99.995%, 3420 CF	8	PK
0330507	Gas, Carbon Dioxide, Industrial Grade, 99.5%, Ames, Size 50#	3	CYL
0330701	Gas, Helium, Industrial Grade, 99.995%, Size 200, Ames, 244 CF	10	CYL
0330726	Liquid Helium, 99.999%, Supplier Owned, 60 Liters, Dewar	1	DEWAR
0330727	Liquid Helium, 99.999%, Supplier Owned, 100 Liters, Dewar	60	DEWAR
0330728	Liquid Helium, 99.999%, Supplier Owned, 250 Liters, Dewar	10	DEWAR
0330729	Liquid Helium, 99.999%, Supplier Owned, 500 Liters, Dewar	1	DEWAR
0330750	Gas, Helium, Bulk, 99.99%	200,000	SCF
0330809	Gas, Hydrogen, Industrial Grade, 99.995%, Size 200, Ames, 196 CF	20	CYL
0331201	Gas, Nitrogen, Industrial Grade, 99.99%, Size 200, Ames, 228 CF	20	CYL
0331700	Gas, Nitrogen, UHP Grade, 99.999%, Size 300, Supplier Owned, 300 CF	70	CYL
0331690	Gas, Nitrogen, Ind. Grade, 99.99%, Size 300 Supplier Owned, 300 CF	100	CYL
0331309	Gas, Oxygen, Industrial Grade, 99.5%, Size 200, Ames, 249 CF	14	CYL
0331406	Gas, P-10, Argon 90%, Methane 10%, Size 1A, Supplier Owned, 225 CF	12	CYL
0331500	Gas, Argon with 5% Hydrogen, Size 1A, Supplier Owned, 220 CF	30	CYL
0331562	PROPANE, FORKLIFT, 33#	4	CYL
0331694	Gas, Nitrogen, HP Grade, 99.995%, Size 300, Supplier Owned, 300 CF	40	CYL
0331708	Gas, Air Zero Grade, Size 1A, Supplier Owned, 232 CF	1	CYL
0331724	Gas, Helium, UHP Grade, 99.999%, Size 300, Supplier Owned, 288 CF	200	CYL
0331759	Gas, Helium, UHP Grade, 99.999%, Size 200, Ames, 219 CF	25	CYL
0331805	Gas, Hydrogen, UHP Grade, 99.999%, Size 300, Supplier Owned, 258 CF	50	CYL
0340201	Liquid Nitrogen, Bulk, 99.998%	400,000	SCF
0331410	5.7% Hydrogen, Nitrogen Certified Size 1A CGA350 212CF 2000PSIG	1	CYL
0331400	2.9% Hydrogen, Argon Certified Size 1A CGA350 212CF 2000PSIG	10	CYL
0331420	3.9% Hydrogen, Helium Certified Size 1A CGA350 212CF 2000PSIG	1	CYL

The following requirements are outlined as part of this Statement of Work (SOW) for procurement of materials under this BPA:

- Supplier will provide an e-commerce website to allow for the Laboratory to place purchase orders.
- Supplier shall automatically replenish the Laboratory owned cylinders. As the Laboratory cylinders are sent empty to the Supplier, they shall be refilled and returned on an automatic and immediate basis.
- Products shall be delivered within one week of receipt of the Purchase Order Release.
- Expedited product deliveries may be required depending on urgent needs to meet Laboratory demands. When the Laboratory requests an expedited delivery, the Supplier shall deliver within one (1) calendar day of receiving an order unless otherwise negotiated.
- Prior to delivery, the Supplier shall ensure that none of the cylinders are leaking.
- Cylinder deliveries are to be made to Ames Laboratory's Warehouse at 2437 Kooser Drive, Ames, Iowa, 50011.
- Supplier will provide company-owned, privately owned, or rental vehicles for transportation. Supplier vehicles must be properly insured to be driven on the Ames Laboratory site in accordance with the insurance requirements stipulated in Appendices C & D – Commercial Items and Services Terms and Conditions and its updates.
- Deliveries of full and pick-up of empty cylinders and dewars will be free of charge, up to two times per week, on pre-arranged days of the week. 20-minute advance notice of arrival is requested (text or call), as well as pre-notification as soon as possible if delivery or pick up will not occur on the prearranged day(s).
- Delivery tickets provided upon delivery shall include the BPA Number and PO Release Number, date delivered, description, and unique Supplier barcode number (if applicable).
- Supplier will provide an itemized statement or receipt notating cylinders and dewars that are returned to Supplier.
- Bulk Nitrogen and Helium must be delivered during non-business hours, 6 p.m. to 6 a.m. Driver will leave a packing slip showing the product level prior to fill and after fill.

- Supplier will provide assistance, on-site training, and software, free of charge to include bar-coding capability (barcode stickers) and two scanners of most current technology and model type for Ames Laboratory to input and extract data to internally bill projects for demurrage charges. The software must be capable of handling existing onsite cylinders as well as Supplier and Ames Laboratory owned/refilled cylinders. Any peripheral equipment required for the software/tracking program to provide the necessary information shall also be provided by the Supplier. For new implementation or changes to the software, other than regularly scheduled upgrades, Ames Laboratory will be given a minimum of six months notice to plan for substantial changes to software processes.
- Supplier will monitor all cylinders for valve replacement needs and hydrostatic testing renewal and will complete necessary valve replacement and hydrostatic testing on all supplier-owned and Ames Lab owned cylinders. For Ames Lab owned cylinders, this will be charged per the rates in the proposal
- Demurrage will be applicable only to non-Ames Laboratory cylinders. Demurrage rates on Supplier owned cylinders shall be quoted in the proposal. The cost to Ames Laboratory associated with hydrostatic testing and replacement valves must also be clearly set out in the proposal.
- The Supplier shall only provide the specific types and sizes of cylinders ordered; substitutions will not be accepted unless authorized by Ames Lab Procurement.
- Quantities of gas cylinder purchases under this BOA will vary by purchase order/release and are dependent on the internal Laboratory demand.
- Supplier will manage re-filling the bulk nitrogen tank as required to ensure a usable quantity of nitrogen is in the tanks at all times.
- Supplier will manage re-filling the bulk helium tank as required to ensure a usable quantity of helium is in the tanks at all times.

Inspection and Acceptance:

Inspection for quality and quantity determination shall be at origin and acceptance shall be performed at destination. Supplier is required to obtain Laboratory acceptance of quantity upon delivery.