# STATEMENT OF WORK

National Aeronautics and Space Administration — Ames Research Center

Commercial Aviation Services — Airborne Science Support IDIQ (Snow4Flow EVS-4)

*Basic Contract*

## 1. Introduction and Background

The NASA Goddard Space Flight Center (GSFC) Cryospheric Sciences Laboratory (Code 615) conducts the Snow4Flow Earth Venture Suborbital-4 (EVS-4) mission, an airborne science investigation measuring Northern Hemisphere glaciers using the Snow4Flow instrument suite — radar echo sounders, lidar, Global Navigation Satellite System (GNSS)-inertial positioning, and camera systems — owned by the mission's providing universities and furnished for integration onto the contract aircraft. The mission requires a ski-equipped survey aircraft in a science configuration, operated in remote Arctic environments across science campaigns in 2027 through 2029.

## 2. Scope

The contractor shall provide commercial aviation services in support of NASA airborne science: provision, modification, and operation of a survey aircraft meeting the requirements of paragraph 4.1 in a science configuration, including flight crew, maintenance, and insurance; support for integration of the Snow4Flow instrument suite; airworthiness compliance; and check, transit, and science flight operations. Services are ordered exclusively by firm-fixed-price task orders issued under this indefinite-delivery, indefinite-quantity contract. This contract may also support other NASA airborne science requirements within scope during the ordering period.

## 3. Applicable Documents

(a) Task order statements of work and mission requirements issued under this contract. (b) Instrument interface control documentation and integration data provided as Government-furnished information. (c) NASA Airworthiness Review Board (ARB) requirements applicable to NASA science personnel flying aboard contractor aircraft. (d) The civil aviation authority requirements applicable to the aircraft and its operation. (e) NPR 7900.3, Aircraft Operations Management, and NASA Commercial Aviation Services inspection requirements. (f) The contractor's approved Safety and Health Plan (DRD-03).

## 4. Requirements

### 4.1 Aircraft Provision

The contractor shall provide a multi-engine turbine-powered survey aircraft in a science configuration suitable for the Snow4Flow instrument suite, together with all flight crew, maintenance, spares, ground support, and insurance necessary for safe and effective operations. The aircraft shall possess the following salient characteristics: (a) ski-equipped and capable of wheel, gravel, and ski operations from remote Arctic airfields as specified in individual task orders; (b) payload capacity, cabin volume, electrical power, and structural provisions sufficient to carry and operate the complete Snow4Flow instrument suite with science operators aboard, per the interface control documentation; (c) endurance and low-altitude survey performance suitable for sustained glacier survey lines; and (d) certification basis permitting the modifications required by paragraph 4.2. An aircraft of the Basler BT-67 type satisfies these characteristics; any aircraft meeting all requirements of this Statement of Work is acceptable.

### 4.2 Aircraft Modification and Instrument Integration Support

The contractor shall perform the aircraft modifications necessary to install, operate, and remove the Snow4Flow instrument suite in accordance with the interface control documentation, including structural provisions, antenna and aperture installations, electrical power, and cooling interfaces. The contractor shall support NASA instrument installation, checkout, and removal activities at the contractor's facility and at deployment sites, and shall obtain and maintain all airworthiness approvals for the modified configuration, including civil aviation authority approval and support to the NASA ARB process. The contractor shall deliver aircraft modification and airworthiness documentation in accordance with DRD-05.

### 4.3 Flight Operations

The contractor shall plan and conduct check flights, transit flights, and science flights as specified in each task order, in coordination with the NASA science team. NASA science personnel will fly aboard as qualified non-crewmembers under NASA medical certification standards and will operate the mission instruments; the contractor operates the aircraft. The contractor shall provide flight following, weather and airfield coordination, and shall accommodate science-driven flight profiles, including low-altitude survey lines over glaciated terrain, within safe operating limits determined by the pilot in command. The contractor shall report flight operations in accordance with DRD-01 and shall deliver a post-deployment report for each campaign deployment in accordance with DRD-07.

### 4.4 Maintenance and Airworthiness

The contractor shall maintain the aircraft in an airworthy condition throughout each task order period of performance, including scheduled and unscheduled maintenance at home base and deployed locations, and shall maintain all certificates, approvals, and records required by the applicable civil aviation authority. The contractor shall hold, or obtain before the period of performance of the first flight task order, a current NASA Commercial Aviation Services (CAS) inspection approval in accordance with NPR 7900.3, and shall maintain that approval throughout the ordering period. The contractor shall deliver flight and maintenance logs in accordance with DRD-02 and airworthiness documentation in accordance with DRD-05.

### 4.5 Insurance

The contractor shall obtain and maintain, for all operations under this contract: (a) aviation liability insurance with a combined single limit of not less than $50,000,000 per occurrence for bodily injury and property damage, including passenger liability covering NASA and other non-crew personnel aboard the aircraft as qualified non-crewmembers; (b) hull insurance on the aircraft; and (c) care, custody, and control coverage for the Snow4Flow instrument suite while in the contractor's possession, in an amount not less than the itemized instrument suite value incorporated into the contract, or written evidence that equivalent coverage is in place. The contractor shall furnish certificates of insurance in accordance with DRD-04 before the first flight under each task order.

### 4.6 Basing and Deployment Logistics

Home base operations are at the contractor's home-base facility identified in its offer. Deployed operations will be conducted from locations specified in individual task orders, anticipated to include Alaska (United States), the Yukon Territory and the Canadian High Arctic (Canada), Svalbard (Norway), and Greenland (Kingdom of Denmark). The contractor shall arrange fuel, ground handling, hangar or ramp access, and crew logistics at deployment sites; associated costs are ordered as other direct costs within the task order price.

### 4.7 Safety and Health

The contractor shall perform all work in accordance with its Safety and Health Plan (DRD-03) and shall report mishaps, incidents, and close calls involving contract operations to the Contracting Officer's Representative (COR) within 24 hours.

### 4.8 Protection of the Instrument Suite and Government-Furnished Information

The Snow4Flow instrument suite is owned by the providing universities and is furnished to the contractor for integration at its facility; it is not Government property. The contractor shall provide care, custody, and protection for the instrument suite while installed on the aircraft or otherwise in the contractor's possession, exercising at least the same degree of care it uses for its own property of similar value, and shall report any loss of or damage to the instrument suite to the Contracting Officer within 24 hours. The contractor shall maintain hull and liability coverage as required by paragraph 4.5 and shall include the instrument suite in its care, custody, and control coverage or shall provide written evidence that such coverage is in place, in accordance with DRD-04. The Government does not assume risk of loss for the instrument suite while it is in the contractor's possession. The contractor shall safeguard Government-furnished technical data, shall use it only for performance of this contract, and shall not retransfer such data to any third party or destination without prior written approval of the Contracting Officer.

### 4.9 Data and Reporting

The contractor shall prepare and deliver the data items specified in the Contract Data Requirements List (Attachment J-2) and the individual task orders. Science data collected by the mission instrument suite are not contractor deliverables and remain under the control of the Government and the providing institutions. The contractor shall protect NASA Electronic Information generated, stored, processed, or exchanged in performance of this contract in accordance with NFS 1852.240-76 and shall deliver the plan or attestation required by DRD-08.

Each Data Requirements Description in Attachment J-2 is generated by a requirement of this Statement of Work as follows: DRD-01, Flight Operations Report, paragraph 4.3; DRD-02, Flight and Maintenance Logs, paragraph 4.4; DRD-03, Safety and Health Plan, paragraph 4.7; DRD-04, Certificates of Insurance, paragraphs 4.5 and 4.8; DRD-05, Aircraft Modification and Airworthiness Documentation, paragraphs 4.2 and 4.4; DRD-06, Use, Maintenance, Repair Data and Instructions, applicable only upon delivery of covered items under a task order; DRD-07, Post-Deployment Report, paragraph 4.3; DRD-08, Information Technology Security Plan or Attestation, paragraph 4.9.

## 5. Contract Line Item Structure

CLIN 0001 — Commercial Aviation Services (Indefinite Quantity, Firm-Fixed-Price). All services required by this Statement of Work, including aircraft hourly services, aircraft daily services at-base and deployed, and other direct costs (fuel, per diem and travel, shop fees, and engineering, fabrication, and certification support), are ordered under this single contract line item. Each task order establishes a firm-fixed price for that order, computed from the firm-fixed catalog rates for the applicable contract period and the other direct cost amounts, as set out in Attachment J-3, Pricing Tables, of the solicitation and incorporated into the contract at award. Funds are obligated against CLIN 0001 at the task order level. The maximum ordering value of CLIN 0001 is $9,000,000. The guaranteed minimum is $75,000.00.

Catalog rates are firm-fixed for each contract period and for the FAR 52.217-8 option period, and are set out in the contract rate schedule. Rates are not subject to adjustment except as expressly provided by the contract.

## 6. Task Order Procedures

The Government will order services by issuing firm-fixed-price task orders specifying the scope, period and places of performance, the quantities of each rate item at the applicable catalog rates, the other direct cost amounts, deliverables, and payment milestones. Task orders are non-severable and fully funded at issuance. Only the Contracting Officer may issue or modify task orders.

## 7. Period and Places of Performance

The ordering period is four years from the date of contract award. In addition, the Government may require continued performance of services for up to six months under FAR 52.217-8, at the rates in effect. Places of performance are the contractor's facilities and the deployment locations specified in individual task orders. No performance occurs at a NASA installation.

### 7.1 Counterintelligence Briefings

The agency-wide requirements statement entitled “Counterintelligence Briefings” applies to this contract. Contractor employees who travel internationally on NASA official business under this contract shall receive a defensive counterintelligence and security briefing from the NASA Office of Protective Services, or from the counterintelligence office designated by the requiring activity, before departure, and shall participate in a debriefing upon return when requested. The contractor shall provide the Contracting Officer's Representative the names, positions, itineraries, and destinations of employees traveling internationally under this contract in sufficient time to permit the briefing to be scheduled, and shall notify the Contracting Officer's Representative of any change in traveler or itinerary. The contractor shall report to the Contracting Officer's Representative any incident occurring during international travel that involves the actual or attempted elicitation of information concerning NASA programs, personnel, or technology, or the loss, theft, or unauthorized access to NASA information or equipment. This requirement flows down to subcontractors whose employees travel internationally on NASA official business under this contract.

### 7.2 Foreign Travel by Contractor Employees on NASA Official Business

The agency-wide requirements statement entitled “Foreign Travel by Contractor Employees on NASA Official Business” applies to this contract. Contractor employees will travel internationally on NASA official business in support of the campaign deployments described in this Statement of Work. The contractor shall obtain the concurrence of the Contracting Officer's Representative before any international travel performed on NASA official business under this contract. Requests shall be submitted not later than thirty (30) calendar days before the proposed departure date, or as soon as practicable when the travel arises from an operational requirement that could not reasonably have been anticipated, and shall identify each traveler, the purpose of the travel, the itinerary, the destinations and dates, and the funding basis. The contractor shall comply with all applicable export control requirements, including restrictions on the release of technical data to foreign persons and on the hand-carriage of equipment, media, or technical data across international borders, and shall comply with the counterintelligence briefing requirement of paragraph 7.1. The contractor shall notify the Contracting Officer's Representative promptly of any change to approved travel and of any incident occurring during travel that affects the safety or security of personnel, equipment, or NASA information. This requirement flows down to subcontractors whose employees travel internationally on NASA official business under this contract.

## 8. Furnished Instrument Suite

The Snow4Flow instrument suite is owned by the providing universities and will be furnished to the contractor for integration onto the aircraft at the contractor's integration facility. An itemized instrument list (description, owning institution, quantity, and estimated value) will be incorporated into the contract. No Government property is provided under this contract. Care, custody, and risk of loss are addressed in paragraph 4.8.