# FedBizOps Notification of Contract Action (NOCA)
# BROAD AGENCY ANNOUNCEMENT
# FA8650-19-S-1013

1. **NAICS CODE**: 541715

2. **FEDERAL AGENCY NAME**: United States Air Force (USAF) Air Force Research Laboratory (AFRL)

3. **BROAD AGENCY ANOUNCEMENT TITLE**: Laser Radar (LADAR) Innovative Development and Research (LIDR) and Asynchronous Geiger Mode LADAR Receiver Development (A-GMLRD)

4. **BROAD AGENCY ANNOUNCEMENT TYPE**: One-Step Closed Broad Agency Announcement

5. **PROPOSAL DUE DATE AND TIME**: A call requesting proposals for these topics is anticipated to be published within approximately ninety (90) days. This is not a call for proposals. Do not submit proposals at this time. Any proposals received at this time will be disregarded. The anticipated funding listed below reflects estimated funding only. This estimate is not a promise of funding. Funding is uncertain and is subject to change. Changes in availability may occur at the discretion of the Government.

6. **PROGRAM DESCRIPTIONS**:

## LADAR Innovative Development and Research (LIDR)

**STATEMENT OF OBJECTIVE/NEEDS**: The objective of this effort is to conduct innovative research and development (R&D) of electro-optical components and technology, furthering advanced warfighting capabilities and supporting the existing and emerging needs of the Air Force and DoD. It is expected that these will be accomplished through laboratory experimentation, component fabrication and analysis, system integration, modeling and simulation (M&S), field and flight testing, signal analysis, target fabrication, and evaluation. The primary goal of this effort is to develop advanced sensor technologies and techniques successfully operable in contested and denied environments meeting Air Force air superiority, global precision attack, rapid global mobility, special operations, and global integrated Intelligence, Surveillance, and Reconnaissance (ISR) service core function needs.

LADAR Innovative Development and Research (LIDR) will continue to advance state-of-the-art active and associated passive electro-optical and infrared (EO/IR) technologies, seek synergies with active and passive radio frequency (RF) technologies, and define and test the integrability of these technologies in support of the Air Force and Department of Defense (DoD) warfighter. The primary focus of current Air Force needs is enhanced combat identification and high resolution wide area three-dimensional imaging (WATI). This research is organized across four primary technology areas: Synthetic Aperture Laser Radar (LADAR), Vibration Sensing, Direct Detection 3 Dimensional (3D) LADAR, and multiple modalities in a single LADAR sensor.

**Asynchronous Geiger Mode LADAR Receiver Development (A-GMLRD)**

**STATEMENT OF OBJECTIVE/NEEDS**: The objective of this effort is to develop asynchronous Geiger mode LiDAR receivers and Geiger mode laser communications (lasercom) receivers for military use, supporting AF research efforts. The Asynchronous Geiger Mode LADAR Receiver Development (A-GMLRD) project will develop a packaged light detection and ranging (LiDAR) receiver system for laser detection and ranging (LADAR) imaging systems and lasercom applications. The result will yield a photon sensitive receiver capable of providing high precision timing measurements to objects within the sensor field of view (FOV), supporting AF sensor development programs and lasercom programs.

**ANTICIPATED DELIVERABLE ITEMS**:

**LIDR**
Scientific and Technical Reports: Final Report, DI-MISC-80711A/T
Funds and Man-Hour Expenditure Report, DI-FNCL-80331A/T
Contract Funds Status Report (CFSR), DI-MGMT-81468/T
Status Report, DI-MGMT-80368A/T
Presentation Material, DI-ADMN-81373/T
Scientific and Technical Reports: Interim Report, DI-MISC-80711A/T
Computer Software Product End Items Data Base, DI-MCCR-80700/T
Test Plan: Flight and Taxi Test Plan, DI-NDTI-80566/T
Software User Manual (Sum), DI-IPSC-81443A/T
Software Requirements Specification (SRS), DI-IPSC-81433A/T
Software Design Description (SDD), DI-IPSC-81435A/T, Due as required
Software Test Plan (STP), DI-IPSC-81438A/T
System/Subsystem Design Description (SSDD), DI-IPSC-81432A/T
System/Subsystem Specification (SSS), DI-IPSC-81431A/T
Developmental Design Drawings/Models and Associated Lists, DI-SESS-81002D/T
Conceptual Design Drawings/Models and Associated Lists, DI-SESS-81001C/T
Computer Programming Manual (CPM), DI-IPSC-81447A/T

**A-GMLRD**
Scientific and Technical Reports: Final Report, DI-MISC-80711A/T
Funds and Man-Hour Expenditure Report, DI-FNCL-80331A/T
Contract Funds Status Report (CFSR), DI-MGMT-81468/T
Scientific and Technical Reports: Spend Plan, DI-MISC-80711A/T
Status Report, DI-MGMT-80368A/T
Presentation Material, DI-ADMN-81373/T
Scientific and Technical Reports: Receiver System User Manual, DI-MISC-80711A/T

**SCHEDULE**: The Air Force anticipates awarding one (1) IDIQ contract with a technical period of performance of 84 months and a 60 month ordering period for the LADAR effort. In addition, one or two smaller CPFF “C” type award(s) is/are anticipated with a Period of Performance (PoP) of 24 months for the A-GMLRD effort.

7. **AWARD INFORMATION**:

**ANTICIPATED FUNDING**: It is estimated the total value of contracts will be $49.9 million; $38.9 million for the LIDR effort and $11.0 million for the A-GMLRD effort.

**ANTICIPATED NUMBER OF AWARDS**: LIDR effort – one
A-GMLRD effort – up to two

**ANTICIPATED AWARD DATE**: July 2019

8. **OTHER**:

General Operations Security (OPSEC) procedures, policies and awareness are required in an effort to reduce program vulnerability from successful adversary collection and exploitation of critical information. OPSEC will be applied throughout the life cycle of the contract. The Critical Information List (CIL) will be provided upon request by the AFRL/RYOY Information Protection Office. While working on the government installation, OPSEC guidance will be provided by the AFRL/RYOY Information Protection Office.

The contractor shall be required to deliver all hardware, software, and associated data developed and utilized in the development of any resulting contract. It is anticipated that a BAA providing details into this program will be released in next 90 days; the BAA will be made available at www.fbo.gov. Other business opportunities for AFRL are also available at www.fbo.gov. Any questions may be directed to the contracting or technical points of contact listed in the announcement.

9. **TECHNICAL POC**: David Chandler, AFRL/RYMM
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**THIS IS NOT A CALL FOR PROPOSALS.**
**DO NOT SUBMIT PROPOSALS AT THIS TIME.**
**ANY PROPOSALS RECEIVED WILL BE DISREGARDED.**