Control No: JA-26-Adel-0352
Contractor: Metacomp Technologies, Inc.
Supply/Service: Six (6) CFD++ Software Licenses

RFO FAR PART 12 SOLE SOURCE JUSTIFICATION FOR COMMERCIAL ACQUISITIONS (OVER-SAT)

Programs/Equipment: Six (6) CFD++ Software Licenses for one (1) base year and four (4) option years.

Authority:
41 U.S.C. 1901(e)(2), implemented by RFO FAR 12.102(b) and RFO FAR 6.103-1 -- Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements.

Amount: [REDACTED]

Breakout:

Base Year : [REDACTED]
Option Year One (1): [REDACTED]
Option Year Two (2): [REDACTED]
Option Year Three (3): [REDACTED]
Option Year Four (4): [REDACTED]
Total 5 Year Cost: [REDACTED]

Prepared by: [REDACTED]

Contracting Officer: Shanna Dellinger
Contracting Officer
Email: shanna.dellinger.civ@army.mil
DSN: 520-691-4950
Date: 06/09/2026

Technical: [REDACTED]

Requirements: [REDACTED]

RFO PART 12 SOLE SOURCE JUSTIFICATION FOR COMMERCIAL ACQUISITIONS (OVER-SAT)

1. Contracting Activity:
Army Contracting Command – Aberdeen Proving Ground (ACC-APG), Adelphi Contracting Division, 2800 Powder Mill Road, Adelphi, MD 20783

2. Description of Action: The Flight Sciences Branch (FSB) of the Weapon Sciences Division at DEVCOM ARL requests a firm-fixed price contract with Metacomp Technologies, Inc. (Small Business) 31365 Oak Crest Drive, Suite 250, Westlake Village, CA, 91361 CAGE Code: 020P4 for the procurement of six (6) CFD++ Software Licenses. The contracts estimated value is [REDACTED] for one (1) base year and four (4) option years. The Government projects award for June 2026 and fiscal year 2026 FSB mission funds will be used.

_X_ An acquisition plan is not required because this procurement either does not meet the threshold at RFO Defense Federal Acquisition Regulation Supplement 207.103-70(a), or is an R&D acquisition and does not meet the definition of services in 10 U.S.C. 2330(c)(2).

3. Description of Supplies/Services:
The Government requires CFD++ Software Licenses from sole vendor Metacomp Technologies, Inc. for 5-year period.

Base Period:	June 2026 to May 2027	Value: [REDACTED]
Option Period 1:	June 2027 to May 2028	Value: [REDACTED]
Option Period 2:	June 2028 to May 2029	Value: [REDACTED]
Option Period 3:	June 2029 to May 2030	Value: [REDACTED]
Option Period 4:	June 2030 to May 2031	Value: [REDACTED]
		Total: [REDACTED]

4. Authority Cited:
41 U.S.C. 1901(e)(2), implemented by RFO FAR 12.102(b) and RFO FAR 6.103-1 -- Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements.

5. Reason for Authority Cited:

The Flight Sciences Branch (FSB) of the Weapon Sciences Division requires purchase of CFD++ Software Licenses from vendor Metacomp Technologies, Inc. For over two decades, CFD++ has been a foundational tool for the DEVCOM ARL, serving as a workhorse in our research and enabling critical computational multiphysics simulations for Army flight munitions, including missiles and gun-launched projectiles.

Previously, DEVCOM ARL accessed CFD++ through floating licenses purchased and provided by the DoD High-Performance Computing Modernization Program (HPCMP). However, recent HPCMP budget cuts have resulted in the cancellation of these licenses. To prevent disruption to mission-critical research and ensure the continuity of customer

programs, FSB must now procure its own dedicated licenses. Without access to CFD++, our ability to support key research initiatives would be severely impeded.

CFD++ is an indispensable tool that directly supports Army Priority Research Areas through its application in programs such as Foundational Hypersonics and Massive Response Fires. The software provides a unique, mature, and efficient suite of industry-leading simulation capabilities essential for our work. Its capabilities include computational fluid dynamics, rigid body dynamics, thermal nonequilibrium, chemistry, and conjugate heat transfer, which are vital for analyzing and simulating flight envelopes from low subsonic to hypersonic speeds. The software is backed by excellent vendor support, ensuring its effective implementation.

Metacomp Technologies, Inc. is the sole source, developer and distributor of the proprietary CFD++ software in the United States. This has been confirmed by recent market research conducted in April 2026, as well as by previous market research from a 2025 purchase of a CFD++ Thermal Non-Equilibrium (TNE) add-on module. No other vendor, software, vehicle, or substitution can fulfill this requirement.

6. Efforts to Obtain Competition:
Metacomp Technologies, Inc. is the sole source, developer and distributor of the proprietary CFD++ software in the United States. This has been confirmed by recent market research conducted in April 2026, as well as by previous market research from a 2025 purchase of a CFD++ Thermal Non-Equilibrium (TNE) add-on module. No other vendor, software, vehicle, or substitution can fulfill this requirement.

Because Metacomp Technologies, Inc. retains exclusive proprietary rights to the CFD++ software and its required add-on modules, and does not utilize authorized third-party resellers, competition could not be obtained. A Notice of Intent to Sole Source will be published on SAM.gov in accordance with RFO 5.201 to allow any other potential sources to express interest

7. Actions to Increase Competition:
Metacomp Technologies, Inc. is the sole source, developer and distributor of the proprietary CFD++ software in the United States. This has been confirmed by recent market research conducted in April 2026, as well as by previous market research from a 2025 purchase of a CFD++ Thermal Non-Equilibrium (TNE) add-on module. No other vendor, software, vehicle, or substitution can fulfill this requirement. The government shall continue to research available software and will open this requirement to competition should an alternative be found.

8. Market Research:
Market Research was conducted by [REDACTED], Aerospace Engineer (15 years), Flight Sciences Branch, Weapon Sciences Division in conjunction with his supervisor, [REDACTED]. Internet searches were completed along with research into previous market research efforts, which confirm that there are no other alternative software available at this time that can meet the Governments minimum requirements.

Market research included direct written communication with Metacomp Technologies, Inc. by Contract Specialist on June 2026. The vendor formally confirmed that they are the sole developer, creator, and exclusive distributor of the CFD++ base software and its specialized add-on modules (MM+RBD and TNE+TEA). Furthermore, Metacomp confirmed that these modules are strictly proprietary to their company and that no authorized third-party resellers exist in the commercial marketplace.

9. Interested Sources:
Sole Source:
[REDACTED]

10. Other Facts:

a. Procurement History:
(1) Contract & Award Date: W911QX25PA020
(2) Competitive status of this action: Sole Source
(3) Authority: 41 U.S.C. 1901, implemented by RFO 12.102(a)

11. Technical Certification: I certify that the supporting data under my cognizance which are included in the justification are accurate and complete to the best of my knowledge and belief.

[redacted]

12. Requirements Certification: I certify that the supporting data under my cognizance which are included in the justification are accurate and complete to the best of my knowledge and belief.

[redacted]

13. **Fair and Reasonable Cost Determination:** I hereby determine that the anticipated cost or price to the Government for this contract action will be fair and reasonable.

This determination will be made using the following:

__ Cost analysis
__ Price analysis
__ Should-cost
_X_ IGE
__ Audit:

As a part of this basis, certified cost or pricing data:

__ will be required.
_X_ will not be required and the following exception applies (RFO 15.403-2(b)(3)):

__ Prices that will be agreed upon are based on adequate price competition.

__ Prices that will be agreed upon are based on prices set by law or regulation.

_X_ A commercial item is being acquired.

__ A waiver has been granted by the head of the contracting activity (HCA) in accordance with DFARS PGI 215.403-1.

__ The contract action is a modification to a contract or subcontract for commercial item(s).

__ The estimated cost of the contract action is less than the threshold for certified cost or pricing data.

[redacted]

14. Contracting Officer Certification: I certify that this justification is accurate and complete to the best of my knowledge and belief.

[redacted]

Approval

Based on the foregoing justification, I hereby approve the procurement of Six (6) CFD++ Software Licenses for one (1) base year and four (4) option years, for an estimate of [REDACTED] and for June 2026 to May 2027 (5 years), on an other than full and open competition basis pursuant to the authority of 41 U.S.C. 1901 as implemented by RFO FAR 12.102(b) and RFO FAR 6.103-1, subject to availability of funds, and provided that the services and property herein described have otherwise been authorized for acquisition.

[redacted]