



DEPARTMENT OF THE AIR FORCE
613TH AIR OPERATIONS CENTER
JOINT BASE PEARL HARBOR-HICKAM, HAWAII

MEMORANDUM FOR RECORD

26 SEP 2024

FROM: PACAF/613 AOC INNOVATION CELL

SUBJECT: Letter of Support for Lovelace AI, Inc. – Department of the Air Force (DAF) Small Business Innovation Research (SBIR) Commercial Solutions Opening (CSO) SBIR X24.7 Phase 1

1. The 613th Air Operations Center Innovation Cell, assigned to Headquarters, Pacific Air Forces, is currently spearheading the development of the MCHMR BattleCloud. This goal is to develop and field a capability of CY 25 fight tonight Joint Services Battle Network via a Hybrid Cloud model that uses colorless transport, SD-Wan capabilities, leverages Post Quantum Crypto capabilities, Artificial Intelligence, Zero Trust Architecture, and mesh networking across INDOPACOM. Our efforts are focused on achieving seamless tactical and operational connectivity across all services and command echelons within INDOPACOM by leveraging existing DoD investments and Azure Cloud infrastructure.
2. Lovelace AI, Inc.'s proposal for developing advanced data fusion and knowledge graph technologies under this SBIR BAA is critically aligned with our operational goals. Their innovative approach to managing and synthesizing vast data sets in real-time is crucial for the MCHMR BattleCloud's success, particularly in enhancing our theater Joint Task Force maneuver elements and direct fire capabilities across the Area of Responsibility (AOR).
3. We have identified Lovelace AI's capabilities as essential for the integration phase of our project, which involves the implementation of cloud applications and multi-cloud orchestration tools, to include analytics at the edge. Their technology promises to significantly streamline our data fusion processes, thereby improving operational decision-making and strategic responsiveness in data-denied environments.
4. The integration of Lovelace AI's technology will allow us to expedite the deployment of the INDOPACOM's command and control model, providing enhanced joint fires desk capabilities in critical locations across the First and Second Island Chains. This capability is vital for our mission to empower mission owners with an operational US "fight tonight" capability.
5. Lovelace AI, Inc. has our full support for their SBIR Phase I proposal. We believe their project will be pivotal in advancing our objectives for the MCHMR BattleCloud, and we are committed to assisting them in transitioning this solution to Phase III and beyond. Their success in this endeavor is integral to the broader strategic goals of Pacific Air Forces and our allies.

Right Effects ... Right Time!

PAUL G. GARCIA,
Lt Col, USAF
613 AOC Innovation Cell