



The AAIM Lab is Core4ce's Center of Excellence for AI/ML, Autonomy, and Advanced Materials Science — and the data and platform engineering to field it.

It matures state-of-the-art research into deployable capability on accelerated timelines, graduating proven work into Core4ce product lines and turning R&D into mission-ready systems for DoD and IC customers.

FROM RESEARCH TO PRODUCT



OUR PROVEN OUTCOMES

STINGR Production Data Engineering-as-a-Service platform fielded across multiple classification environments

CADRE Agentic AI automating requirements definition and data discovery

THERMAL BARRIER COATING Patented coating for hypersonic flight conditions

MAISY Deep-learning metasurface design & fabrication

ADAM AI-Enabled Digital Acquisition Management Platform

THE AAIM LAB ADVANTAGE

Our team of award-winning scientists and engineers combines deep technical expertise with responsible AI practices. As recipients of the AFRL Materials & Manufacturing Directorate (RX) Director's Award and the Charles J. Cleary Scientific Achievement Award, we deliver innovative solutions built on AI practices aligned with ISO/IEC 42001.



OUR CAPABILITIES

● ESTABLISHED ● GROWING ● FUTURE

AI / ML

Machine & Deep Learning

Agentic AI & Autonomous Workflows

Modeling & Simulation

Assured & Adversarial ML

AUTONOMY

Reinforcement & Multi-Agent Learning

Autonomous ISR & Swarming

Autonomy in Contested & DDIL Environments

Space & Satellite Autonomy

ADVANCED MATERIALS SCIENCE

Metamaterials & Metasurfaces

AI-Driven Materials & Optics Design

Hypersonic Thermal Protection

Advanced Manufacturing & Fabrication

DATA & PLATFORM ENGINEERING

Data Engineering-as-a-Service (DEaaS)

Agentic Data Discovery

MLOps & AI Infrastructure

Tactical Edge & Distributed Inference

Open-Architecture Integration

BUILT TO ADVANCE MISSION IMPACT

Core4ce is a data-minded company that serves as a trusted partner to the national security community. We harness the power of data to advance research and development initiatives, protect national interests, and gain competitive advantage.

Through our commitment to innovation, we're empowering defense and intelligence customers to move faster, operate smarter, and make better decisions in increasingly complex mission environments. Visit us at core4ce.com.