



The Digital Manufacturing Institute

MxD

REQUEST FOR QUOTATION

AI-Enabled Process Tracking and
Digital Twin Optimization for Advanced
Energetics Manufacturing

26-12

Revision 2.0 Release Date: September 16, 2026

Contact: Joe Nichols
Sr. Project Engineer
joe.nichols@mxdusa.org

MxD
1415 North Cherry Ave
Chicago, IL 60642

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I. RECORD OF CHANGE

Revision	Date	Sections	Description
1.0	August 31, 2026	N/A	Original
2.0	September 16, 2026	IV, V, VII	Revised technical requirements, scope, and pricing approach. Added evaluation criterion for technical approach.

II. TIMELINE PROJECT OVERVIEW

Deadline for submissions to be received	October 7, 2026 5 PM CT
Follow up clarification meetings as needed	Throughout the submission phase
Feedback to participants	October 21, 2026
Period of Performance	12 months
Anticipated MxD Funding	N/A. The respondent to this RFQ must have a detailed, itemized breakdown of all mandatory and optional items quoted.
Minimum Cost Share Contribution	Cost share is not required; However, cost share is encouraged to support the Institute's mission and quotations with proposed cost share will be viewed favorably.

III. INTRODUCTION

MxD: The Digital Manufacturing Institute strengthens U.S. economic prosperity and national security by driving digital adoption in manufacturing. In partnership with the Department of Defense, MxD (also referred to as the Institute) equips U.S. factories with the digital tools and expertise required for modernization. MxD's core mission is to strengthen U.S. manufacturing global competitiveness to advance economic prosperity and national security by accelerating digital adoption, securing supply chains, and empowering the workforce.

MxD has invested over \$400 million in more than 200 applied research and development projects in areas including design, product development, systems engineering, factory modernization, agile and resilient supply chains, workforce training, and cybersecurity.

MxD is also the DoD's National Center for Cybersecurity in Manufacturing. All MxD projects must take cybersecurity into consideration.

This RFQ is publicly available on the MxD website at <https://www.mxdusa.org/solicitation-opportunities/>. This public posting represents the official notification of a request to submit the required documents. Amendments to an MxD RFQ may be used to extend due dates, clarify

procedural requirements, or modify technical requirements. If an updated RFQ is issued, the previous RFQ will be rescinded. Those interested in responding to this RFQ should carefully monitor the MxD website after an original posting, up to the time of the quotation submission date. Any revisions, amendments or updates will appear in the same section of the website as the original solicitation. It is the responsibility of the Respondents to monitor the MxD RFQ updates and ensure that their quotation meets the solicitation requirements.

The Respondent to an RFQ is the non-Federal organization that submits a quotation in response to the RFQ. Submission to this RFQ is not a commitment for further business by either MxD or the DoD.

All responses to this RFQ are kept strictly confidential and are shared only with DoD authorized personnel in accordance with contractual requirements.

Due to the expedited nature of this RFQ schedule, Respondents are encouraged to meet with MxD project members and ask any questions for clarification purposes. Note that the responses to questions may be made public to all Respondents.

Direct all questions to both:

Joe Nichols
Sr. Project Engineer
joe.nichols@mxdusa.org

Rodrigo Perez
Sr. Systems Integration
Engineer
rodrigo.perez@mxdusa.org



mxdusa.org
@mxdinnovates
info@mxdusa.org

1415 N. Cherry Avenue
Chicago, IL 60642
(312) 281-6900

TECHNICAL SUMMARY



IV. TECHNICAL SUMMARY

PROBLEM STATEMENT

Energetics manufacturing operates as a high-variability batch process in which material state evolves continuously through melting, mixing, filling, and controlled cooling. Variability in raw material lots, environmental conditions, equipment calibration, and operator intervention compounds across the entire batch rather than a single unit, so small early deviations escalate into scrap, rework, and schedule loss later.

Once a batch is underway, operators have limited means to detect drift and limited guidance on how to correct it, and the consequences are not visible until final inspection. Incoming material compounds this. Lots vary within specification, and settings that worked for one lot may not work for the next. Recovery is reactive, empirical, and costly. Sensing is in place, but visibility alone does not close either gap. What is missing is an active capability that evaluates process state during a run and recommends corrective action while it can still be taken, supported by the ability to set a batch up correctly from the start. Similar environments across the energetics industrial base face the same gap, with no established pathway for modernizing them.

OVERVIEW AND OBJECTIVES

MXD, on behalf of a government research and development facility in New Jersey, seeks an industry partner to establish a repeatable framework for modernizing legacy, isolated energetics manufacturing environments. The facility has deployed process sensing and descriptive monitoring across the batch melt-pour process. This effort advances that foundation from descriptive visibility into a reinforcement-learning capability that evaluates process conditions during a batch run and recommends adjustments to operators in real time. The same capability supports pre-batch planning, recommending a starting parameter set based on incoming material specification before a run begins. The resulting framework is intended to support replication across additional energetics processes and facilities.

The objectives of this effort are to:

- Establish and deliver a repeatable implementation and transition framework for modernizing isolated energetics environments, supporting replication across additional processes and facilities.
- Assess the end-to-end melt-pour process and identify where reinforcement learning can be applied to greatest effect.
- Deliver a physics-informed, data-driven predictive digital twin that represents process state over time, correlates multi-source variation, and serves as a validated training environment for reinforcement learning.
- Develop and train a reinforcement learning model that evaluates process state during a batch run and recommends parameter adjustments to operators in real time to achieve Golden Batch outcomes.
- Deliver a quantified definition of the Golden Batch spanning melt composition through final cast quality, including key process parameters, quality metrics at each stage, and the methods used to measure them.
- Shorten the time and material required to return to stable production when incoming material varies between lots.



- Validate model performance against historical and available real batch data, with defined evaluation metrics.
- Provide human-in-the-loop decision support in which the model recommends and the operator retains decision authority, presented in a form usable by production personnel without specialized training.

REQUIREMENTS

Existing Environment

The facility operates a batch melt-pour process in a secure, isolated on-premise environment. Process sensing has been installed across the process, and process data is historized in an on-premise time-series data store. Integration is available through standard industrial automation protocols. Descriptive monitoring is in place, providing operators visibility into process state.

The Government separately owns and operates on-premise compute resources intended to host the capability developed under this effort. Process data does not currently flow to those resources automatically; it is moved by manual export and import.

Development and Production Environment

Production is the Government's on-premise environment at the facility. It is isolated and remote access is not available, so work is promoted into production on site. The Respondent shall establish and maintain its own development environment for the duration of the effort. Respondents shall assume that deployment into, and troubleshooting within, the production environment requires on-site presence. The specific network architecture, and the boundary between development and production environments, will be confirmed with the selected Respondent.

Scope and Pricing Approach

- Scope boundary. Live closed-loop control of production is out of scope. The system recommends parameter adjustments; the operator retains decision authority. The delivered capability shall not write setpoints to, or otherwise directly actuate, production control equipment.
- Basis of quotation. Respondents are not expected to have full visibility into the production environment, existing data, or site specifics at this stage. State the assumptions underlying your pricing. The selected Respondent will be given the detailed information needed to finalize scope and cost prior to award, as described in Funding Requirements.
- Platform approach. Respondents shall propose and justify the digital twin platform approach their solution uses, including how it integrates with the Government's existing sensing, historized data, and compute resources, and shall demonstrate that the approach can be delivered within the period of performance.
- Compute. The Government will furnish the production compute environment on which the delivered models and digital twin will run. Respondents shall not price production compute. Respondents shall provide and price their own development environment. Development may be performed on high-performance workstation-class hardware rather than production-equivalent resources.



- Additional sensing. Additional sensing is not assumed to be required and is determined by the Phase 1 assessment. Respondents who anticipate additional sensing may identify an estimated allowance as a separately stated line item, excluded from the total quoted price and clearly labeled as an estimate pending the assessment. Where additional sensing is approved by MxD and the Government, procurement and integration are the Respondent's responsibility, and funding will be addressed with the selected Respondent prior to award.
- Ongoing support. Respondents shall provide indicative pricing and terms for ongoing support and sustainment following project completion, including any recurring software or platform licensing, software maintenance, model retraining and revalidation, and technical support. This shall be provided as a separately stated line item, excluded from the total quoted price. Nothing in this section constitutes a commitment by MxD or the Government to any future award.

Phase 1 — End-to-End Process Assessment and Gap Analysis

- The Respondent shall enhance the existing end-to-end batch process map from incoming energetic materials through finished product, covering melting, mixing, filling, and controlled cooling.
- The Respondent shall quantify variability across the process, material, environmental, equipment, and people domains, including lag factors such as cure time, transport delay, and staging queues.
- The Respondent shall identify and recommend where reinforcement learning can be applied to greatest effect, supported by the data available, the observability of process state, and the measurability of outcomes at each candidate stage.
- The Respondent shall assess the existing infrastructure, hardware, and software, and shall identify the data, sensing, and interface gaps that must be closed to support predictive optimization and reinforcement learning model training.
- The Respondent shall catalog the existing control and automation stack, including PLCs and historian, and available edge compute, storage, and networking.
- The Respondent shall verify that available data and instrumentation meet what reinforcement learning requires for state observability and reward signal, including sampling rates, timestamp alignment, data quality, historization depth, measurement resolution, and instrument calibration, identifying any gaps.
- The Respondent shall treat any additional sensing or instrumentation identified during the assessment as a Phase 1 finding and shall justify the need using data collected during the assessment. Additional sensing requires MxD and Government approval before procurement.
- The Respondent shall complete this phase and present findings at the earliest practical point in the period of performance, to preserve maximum time for development and for trial runs against available production batches.

Phase 2 — Data Architecture and Integration

- The Respondent shall establish automated data flow from the existing historian and process systems into the Government's compute environment, replacing the current manual export and import.



- The Respondent shall integrate process data into a secure, structured architecture that supports synchronized ingestion across varying data rates and types, interoperating with the existing historian rather than replacing it.
- The Respondent shall address data quality, completeness, timestamp alignment, and historization depth sufficient to support digital twin calibration and reinforcement learning model training, closing the gaps identified in Phase 1.
- The Respondent shall procure and integrate any additional sensing or instrumentation approved following the Phase 1 assessment.
- The Respondent shall document the resulting data architecture, including interfaces, schemas, and data flows.

Phase 3 — Predictive Digital Twin Development

- The Respondent shall develop a physics-informed and data-driven predictive digital twin of the melt-pour process that represents process state over time, correlates multi-source variation, models delay impacts, and generates structured datasets suitable for model training.
- The Respondent shall model the relevant process dynamics, constraints, and disturbances at a fidelity sufficient to support policy learning, such that the twin serves as a validated training and evaluation environment for reinforcement learning.
- The Respondent shall describe how the twin presents process state, predicted outcomes, and recommended adjustments visually, in a form usable by operators and interpretable by stakeholders without specialized training.
- The Respondent shall define the twin calibration methodology and the accuracy acceptance criteria against which the twin will be evaluated.
- The Respondent shall document the twin's modeling approach and validation methodology, demonstrating fidelity against real process data.
- The Respondent shall deliver the twin in a form deployable to the Government's compute environment and shall document the deployment approach.

Phase 4 — Reinforcement Learning Development and Validation

- The Respondent shall provide a formal definition of the reinforcement learning problem, including the state space, action space, a KPI-driven reward function, and constraints, targeting the application identified in Phase 1.
- The Respondent shall propose and justify the policy optimization approach, specifying the algorithm and architecture selected and the training strategy, including use of the digital twin as the training environment.
- The Respondent shall develop and train a reinforcement learning model that evaluates process state during a batch run and recommends parameter adjustments to operators in real time to achieve Golden Batch outcomes.
- The Respondent shall provide a pre-batch recommendation capability that evaluates incoming material characteristics against process history and recommends a starting parameter set prior to a batch run.
- The Respondent shall implement a safety layer with defined constraints and boundary conditions on recommended actions, including safeguards to prevent unsafe exploration, and shall provide human-in-the-loop override.
- The Respondent shall document data requirements, training and validation data partitioning, and the approach to simulation-to-real-world transfer and the reality gap.



- The Respondent shall define the metrics and acceptance thresholds used to evaluate both the digital twin and the trained policy.
- The Respondent shall validate the model through offline validation against historical data, comparison in simulation, and performance benchmarking against the defined evaluation metrics.
- The Respondent shall account for the facility's limited batch-run cadence in the validation plan, and shall validate against real batch data where production runs are available during the period of performance.

Phase 5 — Deployment, Transition, and Sustainment

- The Respondent shall deliver a staged deployment plan that moves from current operations to reinforcement-learning-supported operation in defined increments, with validation gates and rollback criteria at each step.
- The Respondent shall provide the pipeline and architecture to package, version, validate, and promote trained policies and the digital twin from the development environment into the production environment.
- The Respondent shall perform deployment into the production environment on site and shall own troubleshooting and resolution of issues arising in production. Government personnel will observe deployment activities for knowledge transfer purposes.
- The Respondent shall include continuous monitoring for model drift, digital twin divergence, data quality degradation, and out-of-spec conditions, with defined triggers for retraining, fallback, or human review.
- The Respondent shall deliver operator and human-in-the-loop decision-support materials and conduct knowledge transfer sufficient for Government personnel to operate and maintain the delivered capability.
- The Respondent shall deliver an implementation framework documenting the methods, architecture, and lessons from this effort in a form that supports replication of this capability at other energetics facilities.

Cybersecurity and Compliance

Because this effort introduces substantial new software and models into a Government environment, cybersecurity is a firm requirement.

- The Respondent shall comply with the security requirements outlined in NIST SP 800-53 and NIST SP 800-82.
- The Respondent shall prioritize preapproved hardware and software components where possible. Security Technical Implementation Guides (STIGs) for the implementation and configuration of preapproved components are available at the STIGs Document Library, DoD Cyber Exchange. If no STIG exists for a particular component, consult the STIGs Frequently Asked Questions, DoD Cyber Exchange. Allowed networking protocols and ports for both enterprise and industrial networks are published at Enterprise Connections PPSM, DoD Cyber Exchange.
- The Respondent shall ensure all delivered software, models, and integration code operate in a secure, isolated, on-premise environment with no external dependencies or outbound network connections.



- The Respondent shall disclose the provenance of all models, frameworks, and pre-trained components proposed for use, including country of origin and development, and shall identify any component developed or maintained outside the United States.
- The Respondent shall describe where all project data, including training, validation, and model artifacts, will be stored and processed, and shall confirm that no project data will be transmitted to or processed by external or cloud-hosted services.
- The Respondent shall be prepared to handle Controlled Unclassified Information (CUI) in accordance with applicable Government requirements, including NIST SP 800-171. This effort involves access to CUI. Specific CUI handling requirements will be established with the selected Respondent.

Deliverables

The Respondent shall submit the following:

- End-to-end process map with quantified variability, and the Phase 1 assessment findings, including the recommended reinforcement learning application and the data, sensing, and interface gaps identified.
- Data architecture documentation, including interfaces, schemas, and data flows.
- Predictive digital twin, with documented modeling approach, calibration methodology, and validation methodology.
- Reinforcement learning problem definition and model design specifications, including state space, action space, reward function, constraints, and safety layer.
- Evaluation metrics with acceptance thresholds, and validation results against historical and available real batch data.
- Quantified definition of the Golden Batch spanning melt composition through final cast quality, including key process parameters, quality metrics at each stage, and measurement methods.
- Deployment pipeline and monitoring architecture, and a staged deployment plan with validation gates and rollback criteria.
- Operator and human-in-the-loop decision-support and training materials.
- Implementation framework documenting the methods, architecture, and lessons from this effort in a form that supports replication at other energetics facilities.
- Technical Data Package and supporting technical documentation.



mxdusa.org
@mxdinnovates
info@mxdusa.org

1415 N. Cherry Avenue
Chicago, IL 60642
(312) 281-6900

PROGRAM OVERVIEW



V. PROGRAM REQUIREMENTS

QUOTATION

While the format of the quotation is flexible, it must clearly include requirements compliance, respondent qualifications, and cost factors. A quotation consisting of pricing alone will not be evaluated. Respondents shall describe their technical approach to performing the work, including how they will satisfy the requirements in Section IV, sufficient for MxD to assess their ability to execute this effort. Reference section VII Quotation Evaluation for more information.

Neither MxD nor the U.S. Government has any responsibility for costs associated with development, submissions, or pre-award negotiations for this quotation and subsequent contract.

PERIOD OF PERFORMANCE REQUIREMENTS

Estimated period of performance is 12 Months from contract award. Respondents may propose a shorter period of performance with justification; however, it may not exceed 12 months.

TRAVEL AND FACILITY ACCESS

All travel requirements and associated costs needed for execution of the objectives and deliverables must be included in the quotation. Travel will be required to secure U.S. Army facilities. Access to the facilities will require U.S. citizenship and a security background check.

For quotation purposes, Respondents shall assume a minimum of two personnel per site visit and two site visits per month for the duration of the period of performance. Respondents may propose a different travel profile where justified by their proposed approach.

OWNERSHIP OF DELIVERABLES AND INTELLECTUAL PROPERTY

The contract will be structured as a work-for-hire agreement. The solution is expected to combine commercially available components with development performed under this award. Intellectual property developed under this award, if any, will be the property of MxD and the DoD. Any existing, background intellectual property (IP) remains the property of the IP owner.

FUNDING REQUIREMENTS

MxD anticipates awarding a **cost reimbursable award** resulting from this RFQ. MxD reserves the right to fund all, some, or none of the quotations received under issued RFQs. Final award amounts will be determined accordingly based on quotations received, subsequent evaluations, and final agreement between MxD and the Awardee.

Cost share is not required for this contract. However, cost share is encouraged to support the Institute's mission.

MxD recognizes the difficulty in completing a final, fixed-price quotation without additional information or site visits for certain projects. Therefore, **clearly document and explain all assumptions used to generate the quotation.**

If down selected, the Respondent will have the opportunity to gather additional details and revise the quotation. The Respondent must then submit substantiating documentation for costs (including any cost share). MxD will complete a comprehensive cost analysis (including cost reasonableness and cost realism) prior to contract award.



Neither MxD nor the U.S. Government has any responsibility for costs associated with development, submissions, or pre-award negotiations for this quotation and subsequent contract.

VI. ELIGIBILITY

MxD MEMBERSHIP & STANDARD PROJECT AGREEMENT

This RFQ is open to the public; any organizations regardless of membership status may submit a quotation in response to this RFQ. However, this project will require MxD membership, the MxD Membership Agreement and Standard Project Agreement (SPA) must be fully executed with the Respondent within 30 days of notification of project downselect; acknowledgment of this is required in the Quotation submission. Additionally, any organizations that are already members of MxD must ensure they are a member in good standing within 30 days of notification of project downselection.

Any non-MxD members are strongly encouraged to conduct a legal pre-review of the Membership Agreement and Standard Project Agreement (SPA) before submission, as this is a common source of delay during negotiations with proposal teams chosen during downselection. For information on MxD membership, including pricing and benefits, please contact MxD's Manager of Business Development, Chad Crump (chad.crump@mxdusa.org). For more information on becoming a MxD Member, please visit the MxD Membership page on our website.

Federally Funded Research and Development Centers (FFRDCs) and Government entities (Government/National laboratories, military educational institutions, etc.) are subject to applicable direct competition limitations. They cannot propose to Project Calls in any capacity unless they address the following conditions:

- FFRDCs or Government entities may not exclusively team on any specific proposal team.
- FFRDCs must demonstrate that the proposed work is not otherwise available from the private sector and must also provide a letter on letterhead from their sponsoring organization citing the specific authority establishing their eligibility to compete with industry and propose to solicitations utilizing Government funding.
- Government entities must clearly demonstrate that the work is not otherwise available from the private sector and provide written documentation citing the specific statutory authority and, where relevant, contractual authority, establishing their ability to propose to solicitations utilizing government funding.

Government agencies interested in participating in MxD RFQs as a respondent or subcontractor should notify MxD in advance of the RFQ submission. For RFQs utilizing federal funding, special agreements and considerations may need to be implemented to enable participation.

NOTIFICATION OF PARTICIPATION NON-U.S. CITIZENS

The Project Award shall be granted only to U.S. companies, firms, organizations, institutions, or other entities organized or existing under the laws of the United States, its territories, or possessions (as defined in Section 120.15 of International Traffic in Arms Regulations, 22 CFR § 120 et. seq. ("ITAR")).



It is a requirement that work related to the Award must be completed in the U.S. by people legally authorized to work in the U.S. All proposed participation by non-U.S. Citizens must be disclosed to MxD on Attachment 1 Non-U.S. Citizens at least 60 days prior to proposed participation. Written approval of non-U.S. Citizens must be received by the Awardee from MxD prior to commencing work.

VII. QUOTATION EVALUATION

EVALUATION PROCESS

An MxD Evaluation Board (EB) will review and evaluate each submitted quotation. The EB may consist of recognized experts from industry and academia and key government stakeholder representatives (when appropriate). MxD representatives, such as the Director of R&D Projects, the Director of Engineering, and technical subject matter experts may participate in and lead EB meetings.

All members of the EB must agree to a statement of personal and organizational conflict of interest and must agree to a non-disclosure, if not already covered by an MxD NDA.

Through its deliberations, the EB will determine “selectability” of each quotation. Selectability determination is based on quotation evaluation criteria below. Through this process, the quotations are down selected.

EVALUATION CRITERIA

Each quotation is evaluated by a specific set of criteria. Below are the quotation evaluation criteria for this RFQ:

Quotation Evaluation Criteria
Requirements Compliance <i>Quoted solution clearly addresses all objectives and tasks identified in RFQ</i> <i>Technical approach is clearly described and demonstrates a credible path to delivering the required capability</i> <i>Clear identification of assumptions, risks, and mitigations</i> <i>Complete and clear itemization of all requirements</i> <i>Program management plan meets requirements in the RFQ</i>
Respondent Qualifications <i>Respondent and any proposed subcontractors are highly qualified to accomplish objectives with clear delineation of roles and responsibilities</i> <i>Respondent and any subcontractors have unique capabilities that are directly associated with the target technology and tasks</i> <i>Respondent has the ability to travel to U.S. Army facilities, where access to the facilities will require U.S. citizenship and a security background check.</i>
Cost Factors <i>Quoted costs are reasonable and realistic for the proposed work effort</i> <i>Quoted costs are competitive relative to other commercial offerings</i> <i>Value is maximized through inclusion of optional cost share</i>



VIII. SUBMISSION DETAILS

Each Respondent must submit their quotation (including Attachment 1) no later than 5:00PM Central Time, October 7, 2026. All submissions must be submitted electronically to MxD's submission form, [LINK HERE](#). **Please complete the form and hit **SUBMIT** in order to fully submit your proposal/quote.**

Notice of Intent to Submit: If you plan to respond to this RFQ, please notify the Project Contact via email by 9/25/2026. This expression of interest helps the project team effectively manage the evaluation timeline.

IX. NEXT STEPS

NOTIFICATION

MxD will notify all Respondents of that status for their quotation by October, 21, 2026. This notification will include decision of the EB. If the quotation has been accepted for award, instructions for next steps will be reviewed with the selected Respondent.

FINAL REVISIONS

MxD reserves the right to negotiate the cost and scope of the proposed work with a Respondent that has been down selected prior to award. The selected Respondent(s) and subcontractors, if any, who intend to pursue selection may be required to participate in the revision process prior to award.

CONTRACT

Final contract vehicle and contract terms will be negotiated at the time of contracting. Down selection of a quotation does not constitute agreement to quoted terms by either MxD or the DoD.



Attachment 1

Certification of Non-U.S. Citizens

___ There is NO participation by Non-U.S. Citizens proposed for this effort.

___ The following Non-U.S. Citizen is participating in this effort.

Non-U.S. Citizen Name, Contact Info	Country of Citizenship	Primary Employment Location	Employer	US Work Authorization (Visa, Green Card, Etc)	Justification*
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*The Justification section should clearly outline the rationale behind the individual's request for participation, the type of data they will have access to, and other pertinent information regarding their skill set/expertise.



mxdusa.org
@mxdinnovates
info@uilabs.org

1415 N. Cherry Avenue
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