

Advancing Artificial Intelligence (AI)

AI@NIST

- NIST's AI work supports all sectors of the U.S. economy including manufacturing, communications, healthcare, and government – and contributes to a better understanding of AI's capabilities and limitations.
- NIST's AI work is driven by congressional mandates, Presidential Executive Orders, federal policies, and the input and needs expressed by U.S. industry, global researchers, other federal agencies, and the broader AI community, as well as by NIST's own expertise.
- NIST's AI work relies heavily on extensive engagement with industry, other government agencies, academia, and the public.

Contact

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Learn More



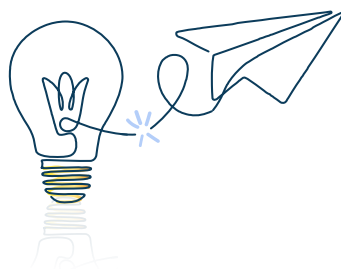
About

NIST ensures that the U.S. is the undeniable leader in AI development and promotes the use of U.S. AI technology by advancing innovation and cultivating trust to enhance security, competitiveness, and quality of life. NIST's portfolio of AI work focuses on:

- **Fundamental research**
- **Applied research**
- **Measurement science for testing and evaluations**
- **Voluntary standards and guidelines**

Notable efforts include the [NIST AI Risk Management Framework \(AI RMF\)](#). Directed by a congressional mandate, and developed with input from the private and public sectors, the AI RMF is a voluntary framework for managing AI risks to maximize its benefits.

NIST develops measurement science capabilities to accelerate innovation in AI – providing a foundation for the community to test and evaluate AI in ways that will improve its functionality and trustworthiness.



NIST participates in and promotes U.S. leadership in voluntary technical standards that advance innovation and public trust in AI systems. In its role as federal AI standards coordinator, NIST works across the government and with industry stakeholders to identify critical standards development activities, strategies, and gaps.

NIST has launched a new [AI Standards “Zero Drafts” Pilot Project](#) to accelerate the creation of AI standards and broaden stakeholder participation.

AI Evaluation

NIST conducts evaluations, including challenge problems, to improve the understanding and measurement of AI capabilities, risks, and impacts.

Examples include: NIST's [Assessing the Risks and Impacts of AI \(AIRA\)](#) program and [GenAI Challenge](#).

Laboratories across NIST perform both fundamental and applied research that takes advantage of AI and provides insights about measurement-related issues that are critical to advancing AI innovation.

Other major activities in the NIST AI portfolio include the Center for AI Standards & Innovation (CAISI), and an AI R&D consortium with over 290 members.