



FUNDERS

- NSF
- NIH
- DOD
- USDA
- NEH
- DOE
- IES
- NIST
- FDN





FUNDER	PROGRAM	DESCRIPTION	DEADLINES
NSF	<u>Research on Innovative Technologies for Enhanced Learning (RITEL)</u>	Supports early-stage research in emerging technologies such as AI, robotics and immersive or augmenting technologies for teaching and learning that respond to pressing needs in real-world educational environments.	Jan. 24 & Nov. 5, 2024
DOD	<u>Strengthening Teamwork for Robust Operations in Novel Groups (STRONG)</u>	Seeks to provide a foundation for enhanced teamwork within heterogeneous human-intelligent agent teams, bringing together diverse, multidisciplinary expertise to support scientific breakthroughs within specific, critical scientific questions.	Feb. 5, 2024
NSF	<u>Science of Learning and Augmented Intelligence</u>	Supports research to develop fundamental knowledge about principles, processes and mechanisms of learning and about augmented intelligence; including research that clearly articulates principled ways in which human approaches to learning and related processes, such as in design, complex decision-making and problem-solving, can be improved through interactions with others or through the use of artificial intelligence in technology.	Feb. 14 & Aug. 14, 2024
NEH	<u>Humanities Research Centers on Artificial Intelligence</u>	Aims to support a more holistic understanding of artificial intelligence (AI) in the modern world through the creation of new humanities research centers on artificial intelligence at eligible institutions. Centers must focus their scholarly activities on exploring the ethical, legal, or societal implications of AI.	Feb. 14, 2024
DOE	<u>Computational Materials Sciences (CMS) - Exploratory Research at the Exoscale</u>	Supports research in Computational Materials Sciences (CMS) with the aim of producing widely applicable, validated public-access community codes and associated databases to enable science-based predictive design and discovery of functional materials; Funds integrated, multidisciplinary team awards that combine skills and expertise in materials theory, modeling, computation, and artificial intelligence, that result in advances that will not be accomplished by those same researchers working separately.	Feb. 15, 2024 (LOI) Mar. 28, 2024 (Full)
NIH	<u>Integrating Machine Learning with Computational Fluid Dynamics Models of Orally Inhaled Drug Products (U01)</u>	Aims to develop a methodology to integrate Machine Learning with Computational Fluid Dynamics models of orally inhaled drug products (OIDPs) to promote alternative bioequivalence (BE) studies to enhance and accelerate the development and approval of generic OIDPs.	Feb. 15, 2024 (LOI); Mar. 31, 2024 (Full)
NIH	<u>Utilizing Real-World Data and Algorithmic Analyses to Assess Post-Market Clinical Outcomes in Patients Switching Amongst Therapeutically Equivalent Complex Generic Drug Products and Reference Listed Drugs (U01) Clinical Trial Not Allowed</u>	Seeks to develop and test an machine learning (ML) and/or artificial intelligence (AI)-based algorithmic Real World Data (RWD) model for post-market surveillance of complex generic drug products.	Feb. 15, 2024 (LOI); Mar. 31, 2024 (Full)
USDA	<u>Organic Agriculture Research and Extension Initiative</u>	Seeks to solve critical organic agriculture issues, priorities, or problems through the integration of research, education, and extension activities; FY 24 priorities include focus on artificial intelligence.	Feb. 15, 2024; Feb. 13, 2025
NSF	<u>National Artificial Intelligence Research Institutes</u>	Supports the development of new AI Institutes that focus on one of the following themes: astronomical sciences, materials research and new methods for strengthening AI.	Feb. 16, 2024



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DOD	<u>DARPA Young Faculty Award (YFA) 2024</u>	Provides high-impact funding to elite researchers early in their careers to develop innovative new research that enables transformative DoD capabilities; open topics include Collective Intelligence - the exploration of complex social systems, adaptable Artificial Intelligence (AI), and AI-accelerated learning.	Feb. 22, 24
DOE	<u>EXPRESS: 2024 Exploratory Research for Extreme-Scale Science</u>	Supports basic research to explore potentially high-impact approaches in scientific computing and extreme-scale science; Exploratory Research for Extreme-Scale Science (EXPRESS) opportunities exist for Harnessing Technology Innovations to Accelerate Science through Visualization, exploring innovative techniques for scientific visualization which make use of artificial intelligence (AI) and virtual reality (VR)/haptics to capture human knowledge for the creation and refinement of automated laboratories.	Feb. 29, 2024 (Pre-app); May 2, 2024 (Full)
IES	<u>NCER Research Education Research and Development Center Program</u>	Provides national leadership in expanding knowledge and understanding of (1) education outcomes for all learners from early childhood education through postsecondary and adult education, and (2) employment and wage outcomes when relevant (such as for those engaged in career and technical, postsecondary, or adult education). Topics for this competition include Using Generative Artificial Intelligence to Augment Teaching and Learning in Classrooms.	Mar. 7, 2024
NSF	<u>Emerging Mathematics in Biology (eMB)</u>	Supports research in mathematical biology that addresses significant biological questions by applying nontrivial mathematics or developing new theories – particularly from foundational mathematics, including artificial intelligence or machine learning.	Mar. 11, 2024
NSF	<u>Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM)</u>	Supports institutions of higher education to fund scholarships for academically talented low-income students and to study and implement a program of activities that support their recruitment, retention and graduation in STEM; particularly interested in supporting the attainment of degrees in fields identified as critical needs for the Nation, including quantum computing and quantum science, robotics, artificial intelligence and machine learning, computer science and computer engineering, data science and computational science.	Mar. 11, 2024
NSF	<u>Expanding AI Innovation through Capacity Building and Partnerships (ExpandAI)</u>	Supports capacity-development projects and partnerships within the National AI Research Institutes ecosystem that help broaden participation in artificial intelligence research, education and workforce development.	Mar. 11, Jun. 24, Oct. 18, 2024; Mar. 10, 2025
NSF	<u>Collaborations in Artificial Intelligence and Geosciences (CAIG)</u>	Seeks to advance the development and adoption of innovative artificial intelligence (AI) methods to increase scientific understanding of the Earth system.	Mar. 15, 2024
DOD	<u>DEVCOM ARL HBCU/MI Research Partnerships</u>	Support basic research focused on partnerships with major DEVCOM ARL research programs to advance innovative basic research in areas of strategic importance to the Army by bringing competitively selected HBCU/MI research teams into existing Army Futures Command (AFC) Collaborative Research Alliances (CRAs), Collaborative Technology Alliances (CTAs), and research centers; several program areas focusing on AI and Machine Learning.	Mar. 15, 2024



FUNDER	PROGRAM	DESCRIPTION	DEADLINES
DOE	<u>Data Reduction for Science</u>	Supports applied mathematics and computer science approaches that address priority research directions (PRDs): (1) effective algorithms and tools that can be trusted by scientists for accuracy and efficiency, (2) progressive reduction algorithms that enable data to be prioritized for efficient streaming, (3) algorithms which can preserve information in features and quantities of interest with quantified uncertainty, and (4) mapping techniques to new architectures and use cases.	Mar. 19, 2024
DOE	<u>Integrated Biological and Computational Low-Dose Radiation Research</u>	Supports integrated biological and computational research to gain a mechanistic understanding of the effects of low dose radiation exposure on cellular functions; seeks to take advantage of rapid technological changes in high throughput genomics, 'omics and computational (Artificial Intelligence and Machine Learning [AI/ML]) technologies in recent years to advance a more mechanistic understanding of low dose and low dose rate effects on cellular metabolism.	Apr. 2, 2024
NSF	<u>Responsible Design, Development, and Deployment of Technologies</u>	Invites proposals from multidisciplinary, multi-sector teams that examine and demonstrate the principles, methodologies, implementations, and impacts associated with responsible design, development, and deployment of technologies in practice; Artificial Intelligence among the technology areas of focus for FY 2024.	Apr. 22, 2024
NSF	<u>Cyber-Physical Systems</u>	Supports research on engineered systems with a seamless integration of cyber and physical components, such as computation, control, networking, learning, autonomy, security, privacy and verification, for a range of application domains; focus on integration of artificial intelligence with CPS especially for real-time operation.	Rolling through May 30, 2024
NSF	<u>Expeditions in Computing</u>	Supports investigators coming together within or across departments or institutions to combine their creative talents in the identification of compelling, transformative research agendas that look ahead by at least a decade and promise disruptive innovations in computer and information science and engineering for many years to come.	Jun. 20, 2024 (Pre-Proposal)
USDA	<u>Agriculture and Food Research Initiative Competitive Grants Program Foundational and Applied Science Program</u>	AI-related priorities are found within: Plant Breeding for Agricultural Production; Novel Foods and Innovative Manufacturing Technologies; Social Implications of Food and Agricultural Technologies; Data Science for Food and Agricultural Systems (DSFAS).	Aug. 1 - Nov. 14, 2024 (Varies by program)
NSF	<u>Experiential Learning for Emerging and Novel Technologies (ExLENT)</u>	Supports inclusive experiential learning opportunities that provide cohorts of diverse learners with the skills needed to succeed in emerging technology fields (e.g., advanced manufacturing, advanced wireless, artificial intelligence, biotechnology, quantum information science, semiconductors, and microelectronics).	Sep. 12, 2024
NSF & NIH	<u>Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH)</u>	Supports the development of transformative high-risk, high-reward advances in computer and information science, engineering, mathematics, statistics, behavioral and/or cognitive research to address pressing questions in the biomedical and public health communities. Transformations hinge on scientific and engineering innovations by interdisciplinary teams that develop novel methods to intuitively and intelligently collect, sense, connect, analyze and interpret data from individuals, devices and systems to enable discovery and optimize health. Solutions to these complex biomedical or public health problems demand the formation of interdisciplinary teams that are ready to address these issues, while advancing fundamental science and engineering.	Oct. 3, 2024



FUNDER	PROGRAM	DESCRIPTION	DEADLINES
FDN	<u>Amazon Research Awards</u>	Offers unrestricted funds and AWS Promotional Credits to support research at academic institutions and non-profit organizations; multiple programs focused on AI and Machine Learning research.	*Late 2024 (Last: Nov. 13, 2023)
NSF	<u>Foundational Research in Robotics</u>	Supports research on robotic systems that exhibit significant levels of both computational capability and physical complexity; for the purposes of this program, a robot is defined as intelligence embodied in an engineered construct, with the ability to process information, sense, plan, and move within or substantially alter its working environment.	Rolling
DOC NIST	<u>Measurement Science and Engineering (MSE) Research Grant Programs</u>	Aims to develop a diverse, world-class pool of scientists and engineers to engage in NIST's measurement science and standards research, and to support the development of a general population that understands and appreciates measurement science and standards; multiple divisions support AI-related research.	Rolling
FDN	<u>GoodAI</u>	Awards grants to research projects that push the boundaries of artificial intelligence.	Rolling
FDN	<u>RAAIS Foundation</u>	Awards financial grants for open source AI research and projects anywhere in the world on the basis of their potential for common good impact; each grant is for a discrete 3 month project and awards are given on a rolling basis during the year.	Rolling
NSF	<u>Safe Learning-Enabled Systems</u>	Supports research into the design and implementation of safe learning-enabled systems in which safety is ensured with high levels of confidence.	TBD (Last: Jan. 16, 2024)



ABOUT HANOVER GRANTS

Hanover provides research development, grant writing, and strategic advising support to a wide range of colleges and universities. Our professionals deliver customized proposal review, revision, and production support, while also helping to align strategic priorities to funding trends and opportunities at all levels.

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