

From: dmsnews
To: DMSNEWS@LISTSERV.NSF.GOV
Subject: New NSF funding opportunity: National Artificial Intelligence (AI) Research Institutes
Date: Monday, October 28, 2019 12:31:53 PM

Dear Colleagues,

A new NSF program solicitation (NSF 20-503) is now available:

National Artificial Intelligence (AI) Research Institutes

Please see

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505686

for details.

N.B.: A program webinar is scheduled for November 7, 2019 at 3:30 PM Eastern time. Please refer to

https://www.nsf.gov/events/event_summ.jsp?cntn_id=299439

for details on the webinar.

Important dates:

- Program webinar: November 7, 2019
- Full proposals due: January 28, 2020
- Planning proposals due: January 30, 2020

From the Program Synopsis:

Artificial Intelligence (AI) has advanced tremendously and today promises personalized healthcare; enhanced national security; improved transportation; and more effective education, to name just a few benefits. Increased computing power, the availability of large datasets and streaming data, and algorithmic advances in machine learning (ML) have made it possible for AI development to create new sectors of the economy and revitalize industries. Continued advancement, enabled by sustained federal investment and channeled toward issues of national importance, holds the potential for further economic impact and quality-of-life improvements.

The 2019 update to the National Artificial Intelligence Research and Development Strategic Plan [1], informed by visioning activities in the scientific community as well as interaction with the public, identifies as its first strategic objective the need to make long-term investments in AI research in areas with the potential for long-term payoffs in AI.

This program, a joint effort of the National Science Foundation (NSF), U.S. Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA), U.S. Department of Homeland Security (DHS) Science & Technology Directorate (S&T), U.S. Department of Transportation (DOT) Federal Highway Administration (FHWA), and U.S. Department of Veterans Affairs (VA), seeks to enable such research through AI Research Institutes. This program solicitation describes two tracks: Planning and Institute tracks. Submissions to the Planning track are encouraged in any areas of foundational and use-inspired research appropriate to NSF and its partner organizations. Proposals for the Institute track must have a principal focus in one or more of the following themes, detailed in the Program Description under "Institute Track":

- * Trustworthy AI;
- * Foundations of Machine Learning;
- * AI-Driven Innovation in Agriculture and the Food System;
- * AI-Augmented Learning;
- * AI for Accelerating Molecular Synthesis and Manufacturing; and
- * AI for Discovery in Physics.

Reference:

[1] The National Artificial Intelligence Research and Development Strategic Plan: 2019 Update
<https://www.nitrd.gov/pubs/National-AI-RD-Strategy-2019.pdf>

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