



Strengthening
University-Industry
Partnerships

Industry-Government Joint Solicitations

2:15 – 3:30pm ET

Room Number: Global Learning Center 323/324



Session Overview

- Motives for Issuing a Joint Solicitation
- Examples of Recent Solicitations
- Topical Themes in Recent Joint Solicitations
- Intellectual Property
- Process for Developing & Issuing a Joint Solicitation

High Level Overview

Award Years: 2018-2022

Companies: Amazon, Boeing Company, IBM, Google, Intel Corporation, Accenture, Apple, Ericsson, Microsoft, Nokia, Qualcomm

**The companies listed in these solicitations are funders, not recipients.*

Intellectual Property

- Open-Source Licensing
- Public Dedication of IP
- Grantee owns copyright and federal government has receives a NERF
- NERF to Federal Government and Industry Funder

NSF/VMware Partnership on the Next Generation of Sustainable Digital Infrastructure (NGSDI)

NSF/VMware Partnership on the Next Generation of Sustainable Digital Infrastructure (NGSDI)

PROGRAM SOLICITATION
NSF 20-594



National Science Foundation

Directorate for Computer and Information Science and Engineering
Division of Computer and Network Systems



VMware, Inc.

Year: 2020

Award Instrument: Grant

Directorate: Computer and Information Science and Engineering (CISE)

Total Investment (NSF + Company funds): \$6,000,000.00

Company Contribution: Each awarded project will be jointly funded by NSF and VMware through separate NSF and VMware funding instruments. NSF awards will be made as continuing or standard grants. VMware awards will be made as VMware agreements (Contracts, Grants, or Gifts)

FIP Ownership: Open Source/Public Dedication

Award Duration: 3 years

of Awardees: 2

Source: <https://www.nsf.gov/pubs/2020/nsf20594/nsf20594.htm>

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Resilient & Intelligent NextG Systems (RINGS)

Resilient & Intelligent NextG Systems (RINGS)

PROGRAM SOLICITATION

NSF 21-581



National Science Foundation

Directorate for Computer and Information Science and Engineering
Division of Computer and Network Systems
Division of Computing and Communication Foundations

Directorate for Engineering
Division of Electrical, Communications and Cyber Systems



Department of Defense



Office of the Under Secretary of Defense for Research and Engineering

NIST

National Institute of Standards and Technology



Apple



Ericsson

Google

Google

IBM

IBM

intel

Intel

Microsoft

Microsoft

NOKIA

Nokia

Qualcomm
Qualcomm
Technologies, Inc.

Qualcomm

vmware

VMware

Award Instrument: Grant

Directorate: Computer and Information Science and Engineering (CISE)

Total Investment (NSF + Company funds): \$37,500,000 - \$40,000,000

Company Contribution: The companies specifically listed in this solicitation have committed to providing annual contributions to NSF for the purpose of funding proposals awarded under this solicitation.

FIP Ownership: NERF to Funding Agency

Award Duration: 3 years

of Awardees: 36-48

Source: <https://www.nsf.gov/pubs/2021/nsf21581/nsf21581.htm>

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Industry Co-Funded NSF AI Research Institutes



NSF AI Institute for Collaborative Assistance and Responsive Interaction for Networked Groups

(This institute is partially funded by Amazon and Google)



NSF AI Institute for Advances in Optimization

(This institute is partially funded by Intel)



NSF AI Institute for Learning-Enabled Optimization at Scale

(This institute is partially funded by Intel)



NSF AI Institute for Adult Learning and Online Education

(This institute is partially funded by Accenture)

Source: https://www.nsf.gov/news/news_summ.jsp?cntn_id=303176

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Topical Themes

- Workforce Development
- Artificial Intelligence
- Digital Infrastructure
- Diversity, equity, and inclusion
- STEM education

Intellectual Property

- Open-Source Licensing
- Public Dedication of IP
- Grantee owns copyright and federal government has receives a NERF
- NERF to Federal Government and Industry Funder

Grant Characteristics

- Overall funding level
- Company Contribution
- Number of Awardees
- Number of years
- Intellectual Property
- Funding distribution methods



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Extra Slides



Boeing/NSF - Partnership for Workforce Development and Diversity in STEM (NSF INCLUDES National Network)



Year: 2018

Award Instrument: Cooperative Agreement

Directorate: Education and Human Resources (EHR) Directorate/Division of Human Resource Development (HRD)

Total Investment (NSF + Company funds): \$21,000,000.00

Company Contribution: \$11,000,000.00

Award Duration: 5 years

of Awardees: 1-2

Source: <https://www.nsf.gov/pubs/2020/nsf20569/nsf20569.htm>

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National Artificial Intelligence (AI) Research Institutes Accelerating Research, Transforming Society, and Growing the American Workforce

**National Artificial Intelligence (AI) Research Institutes Accelerating
Research, Transforming Society, and Growing the American Workforce**

PROGRAM SOLICITATION
NSF 22-502

REPLACES DOCUMENT(S):
NSF 20-604



National Science Foundation



Department of Homeland Security, Science & Technology Directorate



Institute of Education Sciences, U.S. Department of Education



National Institute of Food and Agriculture

NIST

National Institute of Standards and Technology



Department of Defense



Office of the Under Secretary of Defense for Research and Engineering

IBM

IBM Corp.

Year: 2022

Award Instrument: Cooperative Agreement

Directorate: Computer and Information Science and Engineering (CISE)

Total Investment (NSF + Company funds): \$140,000,000

Company Contribution: Companies specifically listed in this solicitation have committed to providing annual unrestricted donations to the NSF for the purpose of funding Institutes in select themes awarded under this solicitation. Specifically, the following partner is contributing to support the following theme:

IBM Corp.: Theme 1, Intelligent Agents for Next-Generation Cybersecurity.

FIP Ownership: NERF to Funding Agency

Award Duration: 3 years

of Awardees: 36-48

Source: <https://www.nsf.gov/pubs/2022/nsf22502/nsf22502.htm>


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NSF Program on Fairness in Artificial Intelligence in Collaboration with Amazon

NSF Program on Fairness in Artificial Intelligence in Collaboration with Amazon (FAI)

PROGRAM SOLICITATION
NSF 21-585

REPLACES DOCUMENT(S):
NSF 20-566

 National Science Foundation
Directorate for Computer and Information Science and Engineering
Division of Information and Intelligent Systems
Directorate for Social, Behavioral and Economic Sciences
Division of Behavioral and Cognitive Sciences

 Amazon

Year: 2021

Award Instrument: Grant

Directorate: Computer and Information Science and Engineering (CISE)

Total Investment (NSF + Company funds): \$7,600,000.00

Company Contribution: Individual awards selected for joint funding by NSF and Amazon will be funded through separate NSF and Amazon funding instruments. For each such project, NSF support will be provided via an NSF Continuing or Standard Grant and Amazon support will be provided via an Amazon agreement (contract or gift).

FIP Ownership: Share IP

Award Duration: 3 years

of Awardees: 10-12

Source: <https://www.nsf.gov/pubs/2021/nsf21585/nsf21585.htm>

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