

## 2021 Current Fiscal Year Report: Advisory Committee for Computer and Information Science and Engineering

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### 1. Department or Agency

National Science Foundation

### 2. Fiscal Year

2021

### 3. Committee or Subcommittee

Advisory Committee for Computer and Information Science and Engineering

### 3b. GSA

### Committee No.

1115

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

06/29/2020

### 6. Expected Renewal Date

06/29/2022

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority

Agency Authority

### 12. Specific Establishment Authority

ADM IV-100

### 13. Effective Date

03/05/1992

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee

Scientific Technical Program Advisory Board

### 16a. Total Number of Reports

No Reports for this Fiscal Year

### 17a. Open Meetings and Dates

No Meetings

### 17b. Closed

0

### 17c. Partially Closed

0

### Other Activities

0

### 17d. Total

0

### Current FY Next FY

### 18a(1). Personnel Pmts to Non-Federal Members

\$0.00 \$0.00

### 18a(2). Personnel Pmts to Federal Members

\$0.00 \$0.00

### 18a(3). Personnel Pmts to Federal Staff

\$0.00 \$0.00

### 18a(4). Personnel Pmts to Non-Member Consultants

\$0.00 \$0.00

### 18b(1). Travel and Per Diem to Non-Federal Members

\$0.00 \$0.00

### 18b(2). Travel and Per Diem to Federal Members

\$0.00 \$0.00

### 18b(3). Travel and Per Diem to Federal Staff

\$0.00 \$0.00

### 18b(4). Travel and Per Diem to Non-member Consultants

\$0.00 \$0.00

<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$0.00	\$0.00
<b>18d. Total</b>	\$0.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00	0.00

**20a. How does the Committee accomplish its purpose?**

To provide advice on potential future research priorities, the committee organizes itself into working groups to deal with various issues, such as, human resources and diversity, the future of high-speed networking, and other specific matters. All play a role in helping CISE and NSF define a research agenda, and meet the needs for an informed citizenry, priorities for support of the nation's advanced computational and communications structure, and developing a future cadre of scientists and engineers. It reviews performance in proposal processing and substance through review of CISE's committee of visitors (COV) reports and management responses to same.

**20b. How does the Committee balance its membership?**

The Committee is diverse and includes individuals covering all scientific and technical fields falling under CISE. Its membership draws from the academic and industrial communities and represents researchers, creators of technology, and users. Several members have interests and expertise in human resource issues which are particularly important in this new and rapidly evolving field.

**20c. How frequent and relevant are the Committee Meetings?**

Meetings usually are held twice yearly and are scheduled to develop advice closely related to the annual budget and long-range planning processes. The Committee's discussions help clarify major emerging research themes for CISE areas and contribute to priority setting. These are recurring responsibilities which require continual community evaluation and updating.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The Committee has been constituted to reflect the broad range of stakeholders involved. No other balanced forum exists to bring the disparate and complementary viewpoints together for presentation, criticism and synthesis.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

N/A

**21. Remarks**

N/A

## Designated Federal Officer

Margaret Martonosi Assistant Director, CISE

Committee Members	Start	End	Occupation	Member Designation
Balazinska, Magdalena	06/01/2017	06/30/2021	University of Washington	Special Government Employee (SGE) Member
Bestavros, Azer	06/01/2020	06/30/2023	Boston University	Special Government Employee (SGE) Member
Cert, Vinton	12/01/2019	12/31/2023	Google	Special Government Employee (SGE) Member
DesJardins, Marie	06/01/2019	06/30/2022	Simmons University	Special Government Employee (SGE) Member
Isbell, Charles	08/01/2009	06/30/2021	Georgia Tech University	Special Government Employee (SGE) Member
Kalil, Thomas	06/01/2019	06/30/2022	Schmidt Futures	Special Government Employee (SGE) Member
Libeskind-Hadas, Ran	06/01/2020	06/30/2023	Harvey Mudd College	Special Government Employee (SGE) Member
Medard, Muriel	06/01/2020	06/30/2023	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Nahrstedt, Klara	12/01/2019	12/31/2022	University of Illinois at Urbana-Champaign	Special Government Employee (SGE) Member
Partridge, Craig	12/01/2018	12/31/2020	Colorado State University	Special Government Employee (SGE) Member
Raghavan, Padma	12/01/2018	12/31/2020	Vanderbilt University	Special Government Employee (SGE) Member
Rutenbar, Rob	07/01/2016	12/31/2020	University of Pittsburgh	Special Government Employee (SGE) Member
Zhou, Yuanyuan	06/01/2020	06/30/2023	University of California, San Diego	Special Government Employee (SGE) Member

**Number of Committee Members Listed: 13**

## Narrative Description

The NSF mission is set out in the NSF Act of 1950 and authorizes and directs the Agency to initiate and support: basic scientific research and research fundamental to the engineering process; and science and engineering education programs at all levels and in all fields of science and engineering. The CISE Advisory Committee provides expert advice to NSF on emerging science and engineering opportunities and serves as a sounding board for new scientific priorities identified within the agency.

**What are the most significant program outcomes associated with this committee?**

Checked if Applies

- Improvements to health or safety
- Trust in government
- Major policy changes
- Advance in scientific research
- Effective grant making

- Improved service delivery
- Increased customer satisfaction
- Implementation of laws or regulatory requirements
- Other

**Outcome Comments**

NA

**What are the cost savings associated with this committee?**

Checked if Applies

- None
- Unable to Determine
- Under \$100,000
- \$100,000 - \$500,000
- \$500,001 - \$1,000,000
- \$1,000,001 - \$5,000,000
- \$5,000,001 - \$10,000,000
- Over \$10,000,000
- Cost Savings Other

**Cost Savings Comments**

The cost of obtaining the expertise, insight, and information provided by the CISE Advisory Committee using alternative methods, such as hiring AC members as full or part-time employees, would obviously be higher.

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

4

**Number of Recommendations Comments**

Number of recommendations for CISE AC Committee and Subcommittee meetings includes FY 20.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

25%

**% of Recommendations Fully Implemented Comments**

All recommendations are considered by the agency. Some are not implementable due to

constraints that the AC members are not aware of.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

25%

**% of Recommendations Partially Implemented Comments**

Please see answer directly above.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes  No  Not Applicable

**Agency Feedback Comments**

The agency provides feedback through a number of mechanisms including via the NSF web site, at future AC meetings, through articles in scientific journals and in other scientific venues.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

The CISE AC provides scientific advice that influences NSF programmatic priorities.

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

Not Applicable

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

- Contact DFO
- Online Agency Web Site
- Online Committee Web Site
- Online GSA FACA Web Site
- Publications
- Other

**Access Comments**

NA