

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES
AERONAUTICS AND SPACE ENGINEERING BOARD

Committee on NASA Mission Critical Workforce, Infrastructure, and Technology

Meeting No. 1

March 2-3, 2023

NAS Building, Board Room, 2101 Constitution Ave. NW, Washington, DC 20418

Hybrid Meeting

ALL TIMES IN US EASTERN STANDARD TIME (UTC-4:00)

This agenda is a draft, subject to change, and was last updated on 3/1/2023 1:06 PM

AGENDA

THURSDAY, MARCH 2, 2023

OPEN SESSION

Livestream Link: <https://vimeo.com/event/2973357>

8:45 AM	Welcome and Introductions	<i>Mr. Norm Augustine, Committee Chair</i>
8:50 AM	Address from the Deputy Associate Administrator for Business Operations (15-minute presentation, 10-minute discussion)	<i>Ms. Casey Swails, Deputy Assoc. Administrator for Business Operations, NASA</i>
9:15 AM	Discussion with Mission Support Directorate on Statement of Task and Maximizing Impact of Study* (20-minute presentation, 35-minute discussion)	<i>Mr. Robert Gibbs, Assoc. Administrator, Mission Support Directorate, NASA</i>
10:10 AM	Short Break	
10:25 AM	Discussion with Hill Staff on CHIPS Act and the Study (15-minute presentation, 25-minute discussion)	<i>Mr. Brent Blevins, Majority Staff Director, Space and Aeronautics Subcommittee, House of Representatives / Mr. Richard-Duane Chambers, Staff Member Space and Science Subcommittee, Senate / Mr. Andrew Miller, Staff Member, Senate Commerce, Science and Transportation Committee (TBC) / Ms. Pam Whitney, Minority Staff Director, Space and Aeronautics Subcommittee, House of Representatives</i>

<i>11:05 AM</i>	<i>Short Break</i>	
11:30 AM	Discussion with Exploration Systems Development Mission Directorate* (10-minute presentation, 20-minute discussion)	<i>Mr. James Free, Assoc. Administrator, Exploration Systems Development Mission Directorate, NASA</i>
<i>12:00 PM</i>	<i>Break for Lunch</i>	
1:00 PM	Discussion with Science Mission Directorate* (10-minute presentation, 20-minute discussion)	<i>Dr. Nicola Fox, Assoc. Administrator, Science Mission Directorate, NASA</i>
1:30 PM	Discussion with Space Technology Mission Directorate* (10-minute presentation, 20-minute discussion)	<i>Mr. Jim Reuter, Assoc. Administrator, Space Technology Mission Directorate, NASA</i>
2:00 PM	Discussion with Space Operations Mission Directorate* (10-minute presentation, 20-minute discussion)	<i>Mr. Ken Bowersox, Deputy Assoc. Administrator for Space Operations, Space Operations Mission Directorate, NASA</i>
<i>2:30 PM</i>	<i>Meeting Adjourns to Closed Session</i>	
<i>3:15 PM</i>	<i>Meeting Returns to Open Session</i>	
3:30 PM	Address from the NASA Deputy Administrator	<i>Ms. Pam Melroy, Deputy Administrator, NASA</i>
<i>4:00 PM</i>	<i>Meeting Adjourns to Closed Session</i>	

* Placeholder Title – To Be Updated by Speaker

FRIDAY, MARCH 3, 2023

OPEN SESSION

Livestream Link: <https://vimeo.com/event/2973358>

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| 10:00 AM | Recap of Day 1 and Welcoming Day 2 Attendees | <i>Mr. Norm Augustine, Committee Chair</i> |
| 10:05 AM | Discussion with Aeronautics Research Mission Directorate*
(10-minute presentation, 20-minute discussion) | <i>Mr. Robert Pearce, Assoc. Administrator,
Aeronautics Research Mission Directorate, NASA</i> |
| 10:35 AM | NASA Long Term Strategic Plan*
(15-minute presentation, 15-minute discussion) | <i>Mr. J. Craig McArthur, Director,
Strategic Investments Division, NASA</i> |
| 11:05 AM | Short Break | |
| 11:30 AM | Public Comment and Question Period*
(30-minute discussion) | |
| 12:00 PM | Meeting Adjourns to Closed Session (or at a time at the discretion of the Chair) | |

The following information is provided for any members of the general public who may be in attendance:

This meeting is being held to gather information to help the committee in its charge. This committee will examine the information and material obtained during this, and other public meetings, in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn nor will recommendations be made. Observers who draw conclusions about the committee's work based on this meeting's discussions will be doing so prematurely.

Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the project. Any inference about an individual's position are therefore also premature.

STATEMENT OF TASK

Committee Organized on February 2023

The National Academies of Sciences, Engineering, and Medicine (NASEM) will appoint an ad hoc committee to conduct a high-level review of NASA's workforce, infrastructure, and technological capabilities that are most relevant to the strategic goals specified in NASA's 2022 Strategic Plan and other key guiding documents. The committee will consider emerging technologies in selected engineering and science disciplines as well as critical facilities needed, and workforce skills required to perform and support the work of the mission directorates, both now and in the future.

The committee will pay particular attention to critical areas of NASA-wide interest that cross mission directorate boundaries, and the critical mission support underpinning mission accomplishments. The committee will make prioritized recommendations on actions needed to better align NASA's engineering and science workforce, skills, physical and systems infrastructure, and technologies with NASA's mission objectives and strategic goals. Recommendations will address improvements and additions to modeling capabilities, critical infrastructure, test facilities, and support required to perform the work.

The scope of the study will include all NASA mission directorates, including the Mission Support Directorate.