## [DISCUSSION DRAFT]

118TH CONGRESS 1ST SESSION H.R.	
To provide for Department of Energy and A Administration research and developme purposes.	_
IN THE HOUSE OF REP	RESENTATIVES
M introduced the following  Committee on	bill; which was referred to the
A BIL	L
To provide for Department of Enc nautics and Space Administrati ment coordination, and for other	on research and develop
1 Be it enacted by the Senate	and House of Representa
2 tives of the United States of Amer	ica in Congress assembled
3 SECTION 1. SHORT TITLE.	
4 This Act may be cited as	the "To Be Supplied

5 Act".

1	SEC. 2. DEPARTMENT OF ENERGY AND NATIONAL AERO-
2	NAUTICS AND SPACE ADMINISTRATION RE-
3	SEARCH AND DEVELOPMENT COORDINA-
4	TION.
5	(a) In General.—The Secretary of Energy (in this
6	section referred to as the "Secretary") and the Adminis-
7	trator of the National Aeronautics and Space Administra-
8	tion (in this section referred to as the "Administrator")
9	shall carry out cross-cutting and collaborative research
10	and development activities focused on the joint advance-
11	ment of Department of Energy and National Aeronautics
12	and Space Administration mission requirements and prior-
13	ities.
14	(b) Memorandum of Understanding.—The Sec-
15	retary and the Administrator shall coordinate the activi-
16	ties under subsection (a) through the establishment of a
17	memorandum of understanding, or other appropriate
18	interagency agreement. Such memorandum or agreement,
19	as the case may be, shall require the use of a competitive,
20	merit-reviewed process, which considers applications from
21	Federal agencies, National Laboratories, institutions of
22	higher education, non-profit institutions, and other appro-
23	priate entities.
24	(c) Coordination.—In carrying out the activities
25	under subsection (a), the Secretary and the Administrator
26	may—

1	(1) conduct collaborative research in a variety
2	of focus areas, such as—
3	(A) propulsion systems and components,
4	including nuclear thermal and nuclear electric,
5	for the Moon and Mars, including radioisotope
6	power systems, thermoelectric generators, ad-
7	vanced nuclear fuels, and heater units;
8	(B) modeling and simulation, machine
9	learning, data assimilation, large scale data
10	analytics, and predictive analysis in order to op-
11	timize algorithms for mission-related purposes;
12	(C) fundamental high energy physics, in-
13	cluding regarding dark energy and dark matter,
14	in collaboration with the program authorized
15	under section 305 of the Department of Energy
16	Research and Innovation Act (42 U.S.C.
17	18643);
18	(D) fundamental earth and environmental
19	sciences, including in collaboration with the pro-
20	gram authorized under section 306 of the De-
21	partment of Energy Research and Innovation
22	Act (42 U.S.C. 18644);
23	(E) radiation health effects, including in
24	collaboration with the program authorized
25	under section 306 of the Department of Energy

1	Research and Innovation Act (42 U.S.C
2	18644);
3	(F) quantum information sciences, includ-
4	ing quantum computing and quantum network
5	infrastructure, including in collaboration with
6	the programs authorized under sections 403
7	and 404 of the National Quantum Initiative Act
8	(15 U.S.C. 8853 and 8854);
9	(G) nanotechnology;
10	(H) scientific observations of the early uni-
11	verse from the Moon;
12	(I) planetary defense from potentially haz-
13	ardous asteroids and near-Earth objects;
14	(J) sensor and satellite development;
15	(K) space situational awareness; and
16	(L) fundamental heliophysics;
17	(2) develop methods to accommodate large vol-
18	untary data sets on space and aeronautical informa-
19	tion on high-performance computing systems with
20	variable quality and scale;
21	(3) promote collaboration, open community-
22	based development, and data and information share
23	ing between Federal agencies, National Labora-
24	tories, institutions of higher education, nonprofit in-
25	stitutions, and other appropriate entities by pro-

1	viding the necessary access and secure data and in-
2	formation transfer capabilities; and
3	(4) support research infrastructure as the Sec-
4	retary and Administrator determine necessary.
5	(d) Agreements.—In carrying out the activities
6	under subsection (a), the Secretary and the Administrator
7	are authorized to—
8	(1) carry out reimbursable agreements between
9	the Department of Energy, the National Aeronautics
10	and Space Administration, and other entities in
11	order to maximize the effectiveness of research and
12	development; and
13	(2) collaborate with other Federal agencies as
14	appropriate.
15	(e) Report.—Not later than two years after the date
16	of the enactment of this section, the Secretary and the
17	Administrator shall submit to the Committee on Science,
18	Space, and Technology of the House of Representatives
19	and the Committee on Energy and Natural Resources and
20	the Committee on Commerce, Science, and Transportation
21	of the Senate, a report detailing the following:
22	(1) Interagency coordination between each Fed-
23	eral agency involved in the research and development
24	activities carried out under this section

1	(2) Potential opportunities to expand the tech-
2	nical capabilities of the Department of Energy and
3	the National Aeronautics and Space Administration.
4	(3) Collaborative research achievements.
5	(4) Areas of future mutually beneficial suc-
6	cesses.
7	(5) Continuation of coordination activities be-
8	tween the Department of Energy and the National
9	Aeronautics and Space Administration.
10	(f) RESEARCH SECURITY.—The activities authorized
11	under this section shall be applied in a manner consistent
12	with subtitle D of title VI of the Research and Develop-
13	ment, Competition, and Innovation Act (enacted as divi-
14	sion B of the CHIPS Act of 2022 (Public Law 117–167;

15 42 U.S.C. 19231 et seq.)).