118TH CONGRESS 2D Session

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To require the Secretary of Commerce to create regional wildland fire research centers, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. LUJÁN (for himself and Mr. SULLIVAN) introduced the following bill; which was read twice and referred to the Committee on

A BILL

To require the Secretary of Commerce to create regional wildland fire research centers, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE.

- 4 This Act may be cited as the "Regional Leadership
- 5 in Wildland Fire Research Act of 2024".

6 SEC. 2. DEFINITIONS.

- 7 In this Act:
- 8 (1) ADMINISTRATOR.—The term "Adminis9 trator" means the Administrator of the National
 10 Oceanic and Atmospheric Administration.

1	(2) Appropriate committees of con-
2	GRESS.—The term "appropriate committees of Con-
3	gress'' means—
4	(A) the Committee on Commerce, Science,
5	and Transportation, the Committee on Energy
6	and Natural Resources, and the Committee on
7	Appropriations of the Senate;
8	(B) the Committee on Science, Space, and
9	Technology, the Committee on Natural Re-
10	sources, and the Committee on Appropriations
11	of the House of Representatives;
12	(C) any other committee of Congress with
13	the authority to facilitate the development of
14	wildland fire research.
15	(3) BOARD.—The term "Board" means the Na-
16	tional Center Coordination Board established by sec-
17	tion $3(c)(1)$.
18	(4) CAREER PATHWAY.—The term "career
19	pathway" has the meaning given that term in sec-
20	tion 3 of the Workforce Innovation and Opportunity
21	Act (29 U.S.C. 3102).
22	(5) CHIEF.—The term "Chief" means the Chief
23	of the United States Forest Service.
24	(6) COUNCIL.—The term "Council" means the
25	Wildland Fire Leadership Council established by Ex-

ecutive Order 13976 (43 U.S.C. 1748b note; relating
 to establishing the Wildland Fire Management Pol icy Committee).

4 (7) FEDERAL SCIENCE AGENCY.—The term
5 "Federal science agency" has the meaning given
6 that term in section 103(f) of the America COM7 PETES Reauthorization Act of 2010 (42 U.S.C.
8 6623(f)).

9 (8) INDIAN TRIBE.—The term "Indian Tribe"
10 has the meaning given the term in section 4 of the
11 Indian Self-Determination and Education Assistance
12 Act (25 U.S.C. 5304).

(9) INSTITUTION OF HIGHER EDUCATION.—The
term "institution of higher education" has the
meaning given that term in section 101(a) of the
Higher Education Act of 1965 (20 U.S.C. 1001(a)).

(10) LAND-GRANT COLLEGES AND UNIVERSITIES.—The term "land-grant colleges and universities" has the meaning given that term in section
1404 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C.
3103).

(11) MINORITY-SERVING INSTITUTION.—The
term "minority-serving institution" means an institution defined in any of paragraphs (1) through (7)

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1	of section 371(a) of the Higher Education Act of
2	1965 (20 U.S.C. 1067q(a)).
3	(12) REGIONAL CENTER.—The term "regional
4	center" means a regional wildland fire research cen-
5	ter established under section 3.
6	(13) SEASONAL.—The term "seasonal" means
7	a time range between 3 months and 2 years.
8	(14) SECRETARY.—The term "Secretary"
9	means the Secretary of Commerce.
10	(15) SUBSEASONAL.—The term "subseasonal"
11	means a time range between 2 weeks and 3 months.
12	(16) TRIBAL ORGANIZATION.—the term "Tribal
13	organization" has the meaning given that term in
14	section 4 of the Indian Self-Determination and Edu-
15	cation Assistance Act (25 U.S.C. 5304).
16	(17) WILDLAND FIRE.—The term "wildland
17	fire" means any non-structure fire that occurs in
18	vegetation or natural fuels and includes wildfires
19	originating from an unplanned ignition or prescribed
20	fire.
21	(18) WILDLAND FIRE MANAGEMENT AGEN-
22	CIES.—The term "wildland fire management agen-
23	cies" means—
24	(A) the Forest Service;
25	(B) the Bureau of Land Management;

1	(C) the National Park Service;
2	(D) the United States Fish and Wildlife
3	Service; and
4	(E) the Bureau of Indian Affairs.
5	(19) WILDLAND FIRE RESEARCH.—The term
6	"wildland fire research" means research to better
7	understand—
8	(A) the causes and consequences of
9	wildland fires, including antecedent and con-
10	temporaneous factors that increase the risk of
11	catastrophic events;
12	(B) the spread and behavior of wildland
13	fires, including fires in the wildland-urban
14	interface;
15	(C) the efficacy of mitigation strategies for
16	wildland fires;
17	(D) the impact of wildland fires on public
18	health, safety, and the environment;
19	(E) the rehabilitation and restoration of
20	affected ecosystems after wildland fires; and
21	(F) the development of mitigation strate-
22	gies and techniques to improve the safety of
23	wildland fire managers and firefighters.

1SEC. 3. ESTABLISHMENT OF REGIONAL WILDLAND FIRE2RESEARCH CENTERS.

3 (a) IN GENERAL.—The Secretary, in coordination 4 with the Administrator and the Chief, shall establish a 5 competitive process for the selection and establishment of 6 regional wildland fire research centers in accordance with 7 subsection (b).

8 (b) SELECTION AND ESTABLISHMENT OF REGIONAL9 CENTERS.—

10 (1) IN GENERAL.—The Secretary shall select
11 not fewer than 7 institutions of higher education or
12 land-grant colleges and universities at which to es13 tablish a regional center to coordinate the develop14 ment of wildland fire research.

15 (2) CRITERIA FOR SELECTION.—

16 (A) IN GENERAL.—In establishing a re-17 gional center at an institution of higher edu-18 cation or land-grant college or university under 19 this section, the Secretary shall prioritize the 20 selection of institutions, colleges, or universities 21 that meet not fewer than one of the following 22 criteria:

23 (i) Have existing programs of record24 in wildland fire research.

25 (ii) Have existing partnerships with26 research institutions of the Federal Gov-

1	ernment and other academic institutions
2	and entities relating to wildland fire re-
3	search.
4	(iii) Participate in or lead a program
5	under the Joint Fire Science Program.
6	(iv) Are a minority-serving institution.
7	(B) REGIONS.—The Secretary shall estab-
8	lish not fewer than one regional center in each
9	of the following regions of the United States:
10	(i) Alaska.
11	(ii) California.
12	(iii) The Northern Rockies.
13	(iv) The Pacific Northwest.
14	(v) The Pacific Islands.
15	(vi) The Southeast.
16	(vii) The Southwest.
17	(3) PURPOSE.—Each regional center, with re-
18	spect to the region covered by the regional center,
19	shall—
20	(A) to the extent practical, coordinate re-
21	search with other wildland fire research entities,
22	such as other academic institutions, the Envi-
23	ronmental Protection Agency, the National
24	Science Foundation, the National Aeronautics
25	and Space Administration, the Department of

1	Energy, the United States Geological Survey,
2	and State research organizations;
3	(B) improve the understanding of wildland
4	fire through wildland fire research that can be
5	applied by wildland fire management agencies;
6	(C) develop technologies and other tools to
7	understand, monitor, and predict wildland fire,
8	including-
9	(i) models to predict fire potential and
10	the spread and behavior of wildland fire
11	and smoke;
12	(ii) models to predict how vegetation
13	will respond to changes in the environment
14	and wildland fire;
15	(iii) the integration of technologies to
16	predict the spread and behavior of wildland
17	fire and smoke in as near-real-time as pos-
18	sible; and
19	(iv) other innovations to be integrated
20	into operational decision support systems
21	relating to wildland fire;
22	(D) develop technologies and other tools to
23	safely support land treatments to reduce the se-
24	verity of wildland fire;

1	(E) leverage predictive capabilities to re-
2	duce the impact of smoke on communities and
3	wildland firefighters;
4	(F) improve the understanding of post-fire
5	risk to the landscape, including flash flooding
6	potential and watershed impacts;
7	(G) test and operate models to support
8	land management decision-making, including
9	through—
10	(i) operating models to support man-
11	agement of wildland fire and vegetation;
12	(ii) the demonstration of integration
13	technologies to support management of
14	wildland fire in as near-real-time as pos-
15	sible; and
16	(iii) the incorporation of decision
17	science and social science that examines
18	the perception and adoption of information
19	related to wildland fire risk;
20	(H) develop a career pathway training pro-
21	gram with respect to carrying out wildland fire
22	research;
23	(I) develop data management protocols to
24	allow for full and open exchange of data pursu-
25	ant to the principles of findability, accessibility,

interoperability, and reusability (commonly re-
ferred to as the "FAIR principles") and archive
and access that data; and
(J) make its work and data fully and open-
ly available.
(c) NATIONAL CENTER COORDINATION BOARD.—
(1) ESTABLISHMENT.—There is established a
coordination board, to be known as the "National
Center Coordination Board".
(2) Composition.—
(A) Members.—
(i) IN GENERAL.—The Board shall be
composed of one member representing each
regional center.
(ii) APPOINTMENT.—Each member
under clause (i) shall be selected by the
relevant regional center.
(B) CHAIR.—The Administrator and the
Chief shall serve as the Co-Chairs of the Board.
(3) DUTIES.—The Board shall—
(A) establish wildland fire science, data
management, and sharing protocols, and tech-
nological research priorities in cooperation with
each regional center and informed by the oper-

2agencies;3(B) coordinate data collection efforts sup-4porting the efforts of each regional center, in-5cluding—6(i) building data layers across each re-7gion described in subsection (b)(2)(B); and8(ii) providing updates on the develop-9ment of wildland fire research models; and10(C) ensure the coordination of, and avoid11unnecessary duplication of, the activities of the12regional centers and the activities of institutions13of higher education, land-grant colleges and14universities, Federal science agencies, and State15research organizations with respect to wildland16fire research, including—17(i) the National Oceanic and Atmos-18pheric Administration;19(ii) the National Laboratories;20(iii) the National Aeronauties and21Space Administration;22(iv) the Environmental Protection23Agency;24(v) the United States Fire Adminis-25tration;	1	ational needs of wildland fire management
4porting the efforts of each regional center, in- cluding—6(i) building data layers across each re- gion described in subsection (b)(2)(B); and (ii) providing updates on the develop- 99ment of wildland fire research models; and 1010(C) ensure the coordination of, and avoid 1111unnecessary duplication of, the activities of the regional centers and the activities of institutions 1313of higher education, land-grant colleges and universities, Federal science agencies, and State research organizations with respect to wildland fire research, including—17(i) the National Oceanic and Atmos- pheric Administration;19(ii) the National Laboratories;20(iii) the National Aeronautics and21Space Administration;22(iv) the Environmental Protection23Agency;24(v) the United States Fire Adminis-	2	agencies;
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 of higher education, land-grant colleges and universities, Federal science agencies, and State research organizations with respect to wildland fire research, including— (i) the National Oceanic and Atmos- pheric Administration; (ii) the National Laboratories; (iii) the National Aeronautics and Space Administration; (iv) the Environmental Protection Agency; (v) the United States Fire Administration; 	11	unnecessary duplication of, the activities of the
14universities, Federal science agencies, and State15research organizations with respect to wildland16fire research, including—17(i) the National Oceanic and Atmos-18pheric Administration;19(ii) the National Laboratories;20(iii) the National Aeronautics and21Space Administration;22(iv) the Environmental Protection23Agency;24(v) the United States Fire Administration;	12	regional centers and the activities of institutions
 research organizations with respect to wildland fire research, including— (i) the National Oceanic and Atmospheric Administration; (ii) the National Laboratories; (iii) the National Aeronautics and Space Administration; (iv) the Environmental Protection Agency; (v) the United States Fire Administration; 	13	of higher education, land-grant colleges and
 16 fire research, including— (i) the National Oceanic and Atmospheric Administration; 19 (ii) the National Laboratories; 20 (iii) the National Aeronautics and 21 Space Administration; 22 (iv) the Environmental Protection 23 Agency; 24 (v) the United States Fire Administration; 	14	universities, Federal science agencies, and State
 (i) the National Oceanic and Atmospheric Administration; (ii) the National Laboratories; (iii) the National Aeronautics and (iii) the National Aeronautics and Space Administration; (iv) the Environmental Protection Agency; (v) the United States Fire Administration; 	15	research organizations with respect to wildland
 pheric Administration; (ii) the National Laboratories; (iii) the National Aeronautics and Space Administration; (iv) the Environmental Protection Agency; (v) the United States Fire Adminis- 	16	fire research, including—
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 21 Space Administration; 22 (iv) the Environmental Protection 23 Agency; 24 (v) the United States Fire Adminis- 	19	(ii) the National Laboratories;
 22 (iv) the Environmental Protection 23 Agency; 24 (v) the United States Fire Adminis- 	20	(iii) the National Aeronautics and
 23 Agency; 24 (v) the United States Fire Adminis- 	21	Space Administration;
24 (v) the United States Fire Adminis-	22	(iv) the Environmental Protection
	23	Agency;
25 tration;	24	(v) the United States Fire Adminis-
	25	tration;

	12
1	(vi) the United States Geological Sur-
2	vey; and
3	(vii) any other relevant entity with
4	specialized expertise in wildland fire re-
5	search; and
6	(D) support end-to-end applications that
7	assist wildland fire management agencies in
8	adopting technologies and incorporating re-
9	search findings produced by the regional cen-
10	ters.
11	(4) MEETINGS.—
12	(A) BOARD MEETINGS.—The Board shall
13	meet quarterly.
14	(B) Public meetings.—
15	(i) IN GENERAL.—The Board shall
16	hold public meetings with affected stake-
17	holders to solicit information from the gen-
18	eral public regarding the development and
19	implications of wildland fire research.
20	(ii) FREQUENCY.—Not less frequently
21	than annually, the Board shall hold at
22	least one public meeting in each State cov-
23	ered by a region described in subsection
24	(b)(2)(B).

1	(5) TERM.—A member of the Board shall be
2	appointed for a term of 4 years, except that of the
3	members first appointed, the Secretary shall ensure
4	that approximately—
5	(A) $\frac{1}{3}$ of members are appointed for a
6	term of 4 years;
7	(B) $\frac{1}{3}$ of members are appointed for a
8	term of 3 years; and
9	(C) $\frac{1}{3}$ of members are appointed for a
10	term of 2 years.
11	(6) VACANCIES.—
12	(A) IN GENERAL.—A vacancy on the
13	Board—
14	(i) shall not affect the powers of the
15	Board; and
16	(ii) shall be filled in the same manner
17	as the original appointment was made by
18	not later than 180 days after the date on
19	which the vacancy occurs.
20	(B) FILLING UNEXPIRED TERM.—An indi-
21	vidual chosen to fill a vacancy shall be ap-
22	pointed for the unexpired term of the member
23	replaced.
24	(7) Recommendations.—Not less frequently
25	than annually, the Board shall submit to the Sec-

1	retary and the Council recommendations to improve
2	wildland fire research to be included in the report
3	described in subsection (e).
4	(d) Advisory Boards.—
5	(1) IN GENERAL.—There is established an advi-
6	sory board at each regional center, to be known as
7	the "Regional Advisory Board".
8	(2) Composition.—
9	(A) IN GENERAL.—Each Regional Advi-
10	sory Board shall consist of members from, or
11	with responsibility covering, the region covered
12	by the relevant regional center, including at
13	minimum—
14	(i) one regional representative from
15	each wildland fire management agency, ap-
16	pointed by that agency;
17	(ii) one representative from the Coun-
18	cil, appointed by the Council;
19	(iii) one representative from a State
20	government agency from each State lo-
21	cated in that region, appointed by the gov-
22	ernor of that State;
23	(iv) one representative from an Indian
24	Tribe or Tribal organization from that re-

1	gion, elected under subparagraph
2	(B)(i)(II); and
3	(v) additional representatives elected
4	under subparagraph (B)(ii)(II).
5	(B) ELECTED MEMBERSHIP.—
6	(i) TRIBAL MEMBERSHIP.—
7	(I) SUBCOMMITTEE.—Each Re-
8	gional Advisory Board shall solicit and
9	approve, on at least an annual basis,
10	nominations for individuals from orga-
11	nizations specified in subparagraph
12	(A)(iv) to serve as a representative on
13	a subcommittee to the Regional Advi-
14	sory Board for the purposes of sub-
15	clause (II).
16	(II) ELECTION.—The sub-
17	committee described in subclause (I)
18	for a Regional Advisory Board shall
19	elect, on an annual basis, one member
20	of the subcommittee to serve as a
21	member of the Regional Advisory
22	Board under subparagraph (A)(iv) for
23	an annual term.
24	(ii) Additional members.—

1	(I) SUBCOMMITTEE.—Each Re-
2	gional Advisory Board shall solicit and
3	approve, on at least an annual basis,
4	nominations for individuals with oper-
5	ational expertise in wildland fire miti-
6	gation and management to serve as a
7	representative on a subcommittee to
8	the Regional Advisory Board for the
9	purposes of subclause (II), including
10	representatives from—
11	(aa) institutions of higher
12	education or land-grant colleges
13	and universities;
14	(bb) nongovernmental orga-
15	nizations;
16	(cc) private industry; and
17	(dd) the wildland firefighter
18	community, including organiza-
19	tions that represent the interests
20	of wildland firefighters.
21	(II) ELECTION.—The sub-
22	committee described in subclause (I)
23	for a Regional Advisory Board may
24	elect a member or members of the
25	subcommittee to serve as a member of

1	the Regional Advisory Board under
2	subparagraph (A)(v) for an annual
3	term.
4	(3) COMPENSATION.—Each member of a Re-
5	gional Advisory Board shall serve on a voluntary
6	basis without compensation.
7	(4) DUTIES.—Each Regional Advisory Board
8	shall—
9	(A) ensure and support the coordination of
10	wildland fire research between the relevant re-
11	gional center and Federal and State land man-
12	agement agencies in that region;
13	(B) communicate the operational needs of
14	Federal and State land management agencies
15	and wildland fire management agencies in that
16	region to the relevant regional center and to the
17	Board;
18	(C) advise, in coordination with the rel-
19	evant regional center, on research goals and ob-
20	jectives; and
21	(D) assist the relevant regional center with
22	the dissemination of research outputs and data
23	to Federal and State land management agencies
24	and wildland fire management agencies in that
25	region.

1	(5) MEETINGS.—Each Regional Advisory Board
2	shall meet quarterly in conjunction with the Board
3	meeting under subsection $(c)(4)(A)$.
4	(6) TERM.—Unless specified otherwise, a mem-
5	ber of a Regional Advisory Board shall serve for a
6	term of 4 years.
7	(7) VACANCIES.—
8	(A) IN GENERAL.—A vacancy on a Re-
9	gional Advisory Board—
10	(i) shall not affect the powers of the
11	Regional Advisory Board; and
12	(ii) shall be filled in the same manner
13	as the original appointment was made by
14	not later than 180 days after the date on
15	which the vacancy occurs.
16	(B) FILLING UNEXPIRED TERM.—An indi-
17	vidual chosen to fill a vacancy shall be ap-
18	pointed for the unexpired term of the member
19	replaced.
20	(e) Report on Wildland Fire Research.—Not
21	later than each of 2 years and 4 years after the date of
22	the enactment of this Act, the Secretary and the Council,
23	in consultation with the Board, shall submit to the appro-
24	priate committees of Congress a report describing—

1	(1) the progress each regional center has made
2	in the development of wildland fire research; and
3	(2) recommendations to improve wildland fire
4	research.
5	(f) Consultation.—In carrying out the require-
6	ments of this section, the Secretary shall consult with—
7	(1) Federal science agencies;
8	(2) the Office of Science and Technology Policy;
9	and
10	(3) the Council.
11	(g) Authorization of Appropriations.—
12	(1) IN GENERAL.—
13	(A) REGIONAL CENTERS.—For estab-
14	lishing and administering the regional centers
15	established under subsection (a), there is au-
16	thorized to be appropriated—
17	(i) \$60,000,000 for fiscal year 2024;
18	(ii) \$61,000,000 for fiscal year 2025;
19	(iii) \$62,000,000 for fiscal year 2026;
20	(iv) \$63,000,000 for fiscal year 2027;
21	and
22	(v) \$64,000,000 for fiscal year 2028.
23	(B) BOARD.—For the Board established
24	under subsection (c), there is authorized to be

1	appropriated \$1,000,000 for each of fiscal years
2	2024 through 2028.
3	(2) ELIGIBLE USE OF FUNDS.—A regional cen-
4	ter may use amounts appropriated pursuant to an
5	authorization of appropriations under paragraph
6	(1)(A) for construction or the acquisition of equip-
7	ment necessary to carry out the requirements of this
8	Act.
9	(3) FLEXIBILITY.—
10	(A) IN GENERAL.—Subject to subpara-
11	graph (B), the Secretary shall adjust appropria-
12	tions under paragraph (1) between the regional
13	centers established under subsection (a) as
14	needed to account for differences in administra-
15	tive costs and research challenges specific to a
16	particular region.
17	(B) NOTICE.—Before adjusting appropria-
18	tions under subparagraph (A) for a fiscal year,
19	the Administrator shall—
20	(i) include that adjustment in the
21	budget request of the Administrator and
22	the Chief for that fiscal year; and
23	(ii) provide notice of that adjustment
24	to the appropriate committees of Congress.

(4) TRANSFER OF FUNDS.—A Federal science
 agency may transfer, as necessary, additional appro priated amounts to a regional center for the purpose
 of carrying out wildland fire research described in
 subsection (b)(3)(B).