117TH CONGRESS 1ST SESSION

H. R. 2961

To provide for advanced biological and environmental research and development capabilities and infrastructure at the Department of Energy, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

May 4, 2021

Mr. Baird (for himself and Mr. Lucas) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To provide for advanced biological and environmental research and development capabilities and infrastructure at the Department of Energy, 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 "Department of Energy
- 5 Biological Innovation Opportunities Act" or the "Depart-
- 6 ment of Energy BIO Act".

1	SEC. 2. AMENDMENTS TO BIOLOGICAL AND ENVIRON-
2	MENTAL RESEARCH PROGRAM.
3	(a) In General.—Section 977(f) of the Energy Pol-
4	icy Act of 2005 (42 U.S.C. 16317) is amended to read
5	as follows:
6	"(f) BIOENERGY RESEARCH CENTERS.—
7	"(1) In general.—In carrying out activities
8	under subsection (a), the Director shall select and
9	establish up to four bioenergy research centers to
10	conduct basic and fundamental research in plant
11	and microbial systems biology, bio imaging and anal-
12	ysis, and genomics to inform the production of fuels,
13	chemicals from sustainable biomass resources, and
14	to facilitate the translation of basic research results
15	to industry.
16	"(2) Selection.—The Director shall select
17	centers under paragraph (1) on a competitive, merit-
18	reviewed basis. The Director shall consider applica-
19	tions from National Laboratories, multi-institutional
20	collaborations, and other appropriate entities.
21	"(3) Duration.—A center established under
22	this subsection shall receive support for a period of
23	not more than 5 years, subject to the availability of
24	appropriations.
25	"(4) Existing centers.—The Director may
26	select a center for participation under this sub-

- section that is in existence, or undergoing a renewal process, on the date of enactment of the Department of Energy BIO Act. Such center shall be eligible to receive support for the duration the 5-year period beginning on the date of establishment of such cen-
- 6 ter.
- 7 "(5) RENEWAL.—Upon the expiration of any 8 period of support of a center under this subsection, 9 the Director may renew support for the center, on 10 a merit-reviewed basis, for a period of not more than 11 5 years.
- "(6) TERMINATION.—Consistent with the existing authorities of the Department, the Director may terminate an underperforming center for cause during the performance period.".
- 16 (b) USER FACILITIES.—Section 306 of the Depart-17 ment of Energy Research and Innovation Act (42 U.S.C.
- 18 18644) is amended by adding at the end the following:
- 19 "(e) BIOLOGICAL AND ENVIRONMENTAL RESEARCH
- 20 User Facilities.—
- 21 "(1) IN GENERAL.—The Director shall carry 22 out a program for the development, construction, op-
- eration, and maintenance of user facilities to en-
- 24 hance the collection and analysis of observational

1	data related to complex biological, earth, and envi-
2	ronmental systems.
3	"(2) Facility requirements.—To the max-
4	imum extent practicable, the user facilities devel-
5	oped, constructed, operated, or maintained under
6	paragraph (1) shall include—
7	"(A) distributed field research and obser-
8	vation platforms for understanding earth sys-
9	tem processes;
10	"(B) instruments and modeling resources
11	for understanding the physical, chemical, and
12	cellular processes of biological and environ-
13	mental systems;
14	"(C) integrated high-throughput sequenc-
15	ing, DNA design and synthesis, metabolomics
16	and computational analysis; and
17	"(D) such other facilities as the Director
18	considers appropriate, consistent with section
19	209 of the Department of Energy Organization
20	Act (42 U.S.C. 7139).
21	"(3) Existing facilities.—In carrying out
22	the program established in paragraph (1), the Direc-
23	tor is encouraged to evaluate the capabilities of ex-
24	isting user facilities and, to the maximum extent

- 1 practicable, invest in modernization of those capa-
- 2 bilities to address emerging research priorities.".

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