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117TH CONGRESS 1ST SESSION

## H. R. 4369

To amend the 21st Century Cures Act to provide for designation of institutions of higher education that provide research, data, and leadership on continuous manufacturing as National Centers of Excellence in Continuous Pharmaceutical Manufacturing, and for other purposes.

## IN THE HOUSE OF REPRESENTATIVES

М	introduced the following bill; which was referred to the
	Committee on

## A BILL

To amend the 21st Century Cures Act to provide for designation of institutions of higher education that provide research, data, and leadership on continuous manufacturing as National Centers of Excellence in Continuous Pharmaceutical Manufacturing, 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 "National Centers of
- 5 Excellence in Continuous Pharmaceutical Manufacturing
- 6 Act of 2021".

1	SEC. 2. NATIONAL CENTERS OF EXCELLENCE IN CONTIN-
2	UOUS PHARMACEUTICAL MANUFACTURING.
3	(a) In General.—Section 3016 of the 21st Century
4	Cures Act (21 U.S.C. 399h) is amended to read as follows:
5	"SEC. 3016. NATIONAL CENTERS OF EXCELLENCE IN CON-
6	TINUOUS PHARMACEUTICAL MANUFAC-
7	TURING.
8	"(a) In General.—The Secretary of Health and
9	Human Services, acting through the Commissioner of
10	Food and Drugs—
11	"(1) shall solicit and, beginning not later than
12	one year after the date of enactment of the National
13	Centers of Excellence in Continuous Pharmaceutical
14	Manufacturing Act of 2021, receive requests from
15	institutions of higher education to be designated as
16	a National Center of Excellence in Continuous Phar-
17	maceutical Manufacturing (in this section referred to
18	as a 'National Center of Excellence') to support the
19	advancement and development of continuous manu-
20	facturing; and
21	"(2) shall so designate any institution of higher
22	education that—
23	"(A) requests such designation; and
24	"(B) meets the criteria specified in sub-
25	section (c).

1	"(b) Request for Designation.—A request for
2	designation under subsection (a) shall be made to the Sec-
3	retary at such time, in such manner, and containing such
4	information as the Secretary may require. Any such re-
5	quest shall include a description of how the institution of
6	higher education meets or plans to meet each of the cri-
7	teria specified in subsection (c).
8	"(c) Criteria for Designation Described.—The
9	criteria specified in this subsection with respect to an in-
10	stitution of higher education are that the institution has,
11	as of the date of the submission of a request under sub-
12	section (a) by such institution—
13	"(1) physical and technical capacity for re-
14	search and development of continuous manufac-
15	turing;
16	"(2) manufacturing knowledge-sharing net-
17	works with other institutions of higher education,
18	large and small pharmaceutical manufacturers, ge-
19	neric and nonprescription manufacturers, contract
20	manufacturers, and other entities;
21	"(3) proven capacity to design and demonstrate
22	new, highly effective technology for use in contin-
23	uous manufacturing;

1	"(4) a track record for creating and transfer-
2	ring knowledge with respect to continuous manufac-
3	turing;
4	"(5) the potential to train a future workforce
5	for research on and implementation of advanced
6	manufacturing and continuous manufacturing; and
7	"(6) experience in participating in and leading
8	a continuous manufacturing technology partnership
9	with other institutions of higher education, large and
10	small pharmaceutical manufacturers, generic and
11	nonprescription manufacturers, contract manufac-
12	turers, and other entities—
13	"(A) to support companies with continuous
14	manufacturing in the United States;
15	"(B) to support Federal agencies with
16	technical assistance, which may include regu-
17	latory and quality metric guidance as applica-
18	ble, for advanced manufacturing and continuous
19	manufacturing;
20	"(C) with respect to continuous manufac-
21	turing, to organize and conduct research and
22	development activities needed to create new and
23	more effective technology, capture and dissemi-
24	nate expertise, create intellectual property, and
25	maintain technological leadership;

1	"(D) to develop best practices for design-
2	ing continuous manufacturing; and
3	"(E) to assess and respond to the work-
4	force needs for continuous manufacturing, in-
5	cluding the development of training programs if
6	needed.
7	"(d) Termination of Designation.—The Sec-
8	retary may terminate the designation of any National Cen-
9	ter of Excellence designated under this section if the Sec-
10	retary determines such National Center of Excellence no
11	longer meets the criteria specified in subsection (c). Not
12	later than 60 days before the effective date of such a ter-
13	mination, the Secretary shall provide written notice to the
14	National Center of Excellence, including the rationale for
15	such termination.
16	"(e) Conditions for Designation.—As a condi-
17	tion of designation as a National Center of Excellence
18	under this section, the Secretary shall require that an in-
19	stitution of higher education enter into an agreement with
20	the Secretary under which the institution agrees—
21	"(1) to collaborate directly with the Food and
22	Drug Administration to publish the reports required
23	by subsection (g);

1	"(2) to share data with the Food and Drug Ad-
2	ministration regarding best practices and research
3	generated through the funding under subsection (f);
4	"(3) to develop, along with industry partners
5	(which may include large and small biopharma-
6	ceutical manufacturers, generic and nonprescription
7	manufacturers, and contract manufacturers) and an-
8	other institution or institutions designated under
9	this section, if any, a roadmap for developing a con-
10	tinuous manufacturing workforce;
11	"(4) to develop, along with industry partners
12	and other institutions designated under this section,
13	a roadmap for strengthening existing, and devel-
14	oping new, relationships with other institutions; and
15	"(5) to provide an annual report to the Food
16	and Drug Administration regarding the institution's
17	activities under this section, including a description
18	of how the institution continues to meet and make
19	progress on the criteria listed in subsection (c).
20	"(f) Funding.—
21	"(1) IN GENERAL.—The Secretary shall award
22	funding, through grants, contracts, or cooperative
23	agreements, to the National Centers of Excellence
24	designated under this section for the purpose of
25	studying and recommending improvements to contin-

1	uous manufacturing, including such improvements
2	as may enable the Centers—
3	"(A) to continue to meet the conditions
4	specified in subsection (e); and
5	"(B) to expand capacity for research on,
6	and development of, continuing manufacturing.
7	"(2) Consistency with fda mission.—As a
8	condition on receipt of funding under this sub-
9	section, a National Center of Excellence shall agree
10	to consider any input from the Secretary regarding
11	the use of funding that would—
12	"(A) help to further the advancement of
13	continuous manufacturing through the National
14	Center of Excellence; and
15	"(B) be relevant to the mission of the
16	Food and Drug Administration.
17	"(3) Authorization of appropriations.—
18	There is authorized to be appropriated to carry out
19	this subsection \$80,000,000 for the period of fiscal
20	years 2022 through 2026.
21	"(4) Rule of Construction.—Nothing in
22	this section shall be construed as precluding a Na-
23	tional Center for Excellence designated under this
24	section from receiving funds under any other provi-
25	sion of this Act or any other Federal law.

1	"(g) Annual Review and Reports.—
2	"(1) Annual Report.—Beginning not later
3	than one year after the date on which the first des-
4	ignation is made under subsection (a), and annually
5	thereafter, the Secretary shall—
6	"(A) submit to Congress a report describ-
7	ing the activities, partnerships and collabora-
8	tions, Federal policy recommendations, previous
9	and continuing funding, and findings of, and
10	any other applicable information from, the Na-
11	tional Centers of Excellence designated under
12	this section; and
13	"(B) make such report available to the
14	public in an easily accessible electronic format
15	on the website of the Food and Drug Adminis-
16	tration.
17	"(2) Review of National Centers of ex-
18	CELLENCE AND POTENTIAL DESIGNEES.—The Sec-
19	retary shall periodically review the National Centers
20	of Excellence designated under this section to ensure
21	that such National Centers of Excellence continue to
22	meet the criteria for designation under this section.
23	"(3) Report on long-term vision of fda
24	ROLE.—Not later than 2 years after the date on
25	which the first designation is made under subsection

1	(a), the Secretary, in consultation with the National
2	Centers of Excellence designated under this section,
3	shall submit a report to the Congress on the long-
4	term vision of the Department of Health and
5	Human Services on the role of the Food and Drug
6	Administration in supporting continuous manufac-
7	turing, including—
8	"(A) a national framework of principles re-
9	lated to the implementation and regulation of
10	continuous manufacturing;
11	"(B) a plan for the development of Federal
12	regulations and guidance for how advanced
13	manufacturing and continuous manufacturing
14	can be incorporated into the development of
15	pharmaceuticals and regulatory responsibilities
16	of the Food and Drug Administration; and
17	"(C) appropriate feedback solicited from
18	the public, which may include other institutions,
19	large and small biopharmaceutical manufactur-
20	ers, generic and nonprescription manufacturers,
21	and contract manufacturers.
22	"(h) Definitions.—In this section:
23	"(1) ADVANCED MANUFACTURING.—The term
24	'advanced manufacturing' means an approach for
25	the manufacturing of pharmaceuticals that incor-

1	porates novel technology, or uses an established
2	technique or technology in a new or innovative way
3	(such as continuous manufacturing where the input
4	materials are continuously transformed within the
5	process by two or more unit operations) that en-
6	hances drug quality or improves the manufacturing
7	process.
8	"(2) Continuous Manufacturing.—The
9	term 'continuous manufacturing'—
10	"(A) means a process where the input ma-
11	terials are continuously fed into and trans-
12	formed within the process, and the processed
13	output materials are continuously removed from
14	the system; and
15	"(B) consists of an integrated process that
16	consists of a series of two or more unit oper-
17	ations.
18	"(3) Institution of higher education.—
19	The term 'institution of higher education' has the
20	meaning given such term in section 101(a) of the
21	Higher Education Act of 1965 (20 U.S.C. 1001(a)).
22	"(4) Secretary.—The term 'Secretary' means
23	the Secretary of Health and Human Services, acting
24	through the Commissioner of Food and Drugs.".

- 1 (b) Transition Rule.—Section 3016 of the 21st
- 2 Century Cures Act (21 U.S.C. 399h), as in effect on the
- 3 day before the date of the enactment of this section, shall
- 4 apply with respect to grants awarded under such section
- 5 before such date of enactment.