119TH CONGRESS 1ST SESSION	S.		
-------------------------------	----	--	--

To require the Secretary of Energy to establish the Advanced Artificial Intelligence Evaluation Program, and for other purposes.

## IN THE SENATE OF THE UNITED STATES

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

## A BILL

To require the Secretary of Energy to establish the Advanced Artificial Intelligence Evaluation Program, 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 "Artificial Intelligence
- 5 Risk Evaluation Act of 2025".
- 6 SEC. 2. SENSE OF CONGRESS; PURPOSES.
- 7 (a) Sense of Congress.—It is the sense of Con-
- 8 gress that rapidly advancing artificial intelligence capabili-
- 9 ties present both opportunities and significant risks to na-

1	tional security, public safety, economic competitiveness
2	civil liberties, and healthy labor and other markets, and
3	that, as artificial intelligence advances toward human-leve
4	capabilities in virtually all domains, the United States
5	must establish a secure testing and evaluation program
6	to generate data-driven options for managing emerging
7	risks.
8	(b) Purposes.—The purposes of the program estab
9	lished under this Act are to provide Congress with the em
10	pirical data, lessons, and insights necessary for Federa
11	oversight of artificial intelligence to ensure that regulator
12	decisions are made on the basis of empirical testing, and
13	to enable Congress to safeguard American citizens.
14	SEC. 3. DEFINITIONS.
15	In this Act:
16	(1) Advanced artificial intelligence sys
17	TEM.—
18	(A) In general.—Subject to subpara
19	graph (B), the term "advanced artificial intel
20	ligence system" means an artificial intelligence
21	system that was trained using a quantity o
22	computing power greater than $10^{26}$ integer of
23	floating-point operations.
24	(B) ALTERNATE MEANING.—The Sec
25	retary may by a rule propose a new definition

1	of the term "advanced artificial intelligence sys-
2	tem" to replace the definition in subparagraph
3	(A), which new definition shall not go into ef-
4	fect until the Secretary submits the rule to
5	Congress and a joint resolution approving the
6	rule is enacted into law.
7	(2) Adverse AI incident.—The term "ad-
8	verse AI incident" means an incident relating to an
9	artificial intelligence system that involves—
10	(A) a loss-of-control scenario;
11	(B) a risk of weaponization by a foreign
12	adversary, a foreign terrorist organization, or
13	another adversary of the United States Govern-
14	ment;
15	(C) a threat to the safety or reliability of
16	critical infrastructure (as defined in subsection
17	(e) of the Critical Infrastructures Protection
18	Act of 2001 (42 U.S.C. 5195c(e)));
19	(D) a significant erosion of civil liberties,
20	economic competition, and healthy labor mar-
21	kets;
22	(E) scheming behavior; or
23	(F) an attempt to carry out an incident de-
24	scribed in subparagraphs (A) through (E).

1	(3) ARTIFICIAL INTELLIGENCE; AI.—The term
2	"artificial intelligence" or "AI" means technology
3	that enables a device or software—
4	(A) to make—for a given set of human-de-
5	fined objectives—predictions, recommendations,
6	or decisions influencing real or virtual environ-
7	ments; and
8	(B) to use machine and human-based in-
9	puts—
10	(i) to perceive real and virtual envi-
11	ronments;
12	(ii) to abstract such perceptions into
13	models through analysis in an automated
14	manner; and
15	(iii) to use model inference to formu-
16	late options for information or action.
17	(4) Artificial intelligence system; AI
18	SYSTEM.—The term "artificial intelligence system"
19	or "AI system" means a particular model, program,
20	or tool within the field of artificial intelligence.
21	(5) Artificial superintelligence.—
22	(A) IN GENERAL.—The term "artificial
23	superintelligence" means artificial intelligence
24	that exhibits, or can easily be modified to ex-

1	hibit, all of the characteristics described in sub-
2	paragraph (B).
3	(B) Characteristics described.—The
4	characteristics referred to in subparagraph (A)
5	are the following:
6	(i) The AI can enable a device or soft-
7	ware to operate autonomously and effec-
8	tively for long stretches of time in open-
9	ended environments and in pursuit of
10	broad objectives.
11	(ii) The AI can enable a device or
12	software to match or exceed human cog-
13	nitive performance and capabilities across
14	most domains or tasks, including those re-
15	lated to decisionmaking, learning, and
16	adaptive behaviors.
17	(iii) The AI can enable a device or
18	software to potentially exhibit the capacity
19	to independently modify or enhance its own
20	functions in ways that could plausibly cir-
21	cumvent human control or oversight, pos-
22	ing substantial and unprecedented risks to
23	humanity.
24	(6) Computing Power.—The term "computing
25	power" means the processing power and other elec-

1 tronic resources used to train, validate, deploy, and 2 run AI algorithms and models. 3 (7) COVERED ADVANCED ARTIFICIAL INTEL-LIGENCE SYSTEM DEVELOPER.—The term "covered 4 5 advanced artificial intelligence system developer" 6 means a person that designs, codes, produces, owns, 7 or substantially modifies an advanced artificial intel-8 ligence system for use in interstate or foreign com-9 merce, including by taking steps to initiate a train-10 ing run of the advanced artificial intelligence system. 11 (8) Deploy.—The term "deploy" means an ac-12 tion taken by a covered advanced artificial intel-13 ligence system developer to release, sell, or otherwise 14 provide access to an advanced artificial intelligence 15 system outside the custody of the developer, includ-16 ing by releasing an open-source advanced artificial 17 intelligence system. 18 (9) Foreign Adversary.—The term "foreign 19 adversary" means a foreign adversary (as defined in 20 section 791.2 of title 15, Code of Federal Regula-21 tions) (or successor regulations) that is included on 22 the list in section 791.4(a) of that title (or successor

(10) Foreign terrorist organization.—
The term "foreign terrorist organization" means a

23

24

25

regulations).

	7
1	foreign entity designated as a foreign terrorist orga-
2	nization by the Secretary of State under section 219
3	of the Immigration and Nationality Act (8 U.S.C.
4	1189).
5	(11) Interstate or foreign commerce.—
6	The term "interstate or foreign commerce" has the
7	meaning given the term in section 921(a) of title 18,
8	United States Code.
9	(12) Loss-of-control scenario.—The term
10	"loss-of-control scenario" means a scenario in which
11	an artificial intelligence system—
12	(A) behaves contrary to its instruction or
13	programming by human designers or operators;
14	(B) deviates from rules established by
15	human designers or operators;
16	(C) alters operational rules or safety con-
17	straints without authorization;
18	(D) operates beyond the scope intended by
19	human designers or operators;
20	(E) pursues goals that are different from
21	those intended by human designers or opera-
22	tors;
23	(F) subverts oversight or shutdown mecha-
24	nisms; or

1	(G) otherwise behaves in an unpredictable
2	manner so as to be harmful to humanity.
3	(13) Program.—The term "program" means
4	the Advanced Artificial Intelligence Evaluation Pro-
5	gram established under section 5.
6	(14) Scheming Behavior.—The term "schem-
7	ing behavior" means behavior by an AI system to
8	deceive human designers or operators, including
9	by—
10	(A) hiding its true capabilities and objec-
11	tives; or
12	(B) attempting to subvert oversight mecha-
13	nisms or shutdown mechanisms.
14	(15) Secretary.—The term "Secretary"
15	means the Secretary of Energy.
16	SEC. 4. OBLIGATION TO PARTICIPATE; ENFORCEMENT AND
17	PENALTIES.
18	(a) In General.—Each covered advanced artificial
19	intelligence system developer shall—
20	(1) participate in the program; and
21	(2) provide to the Secretary, on request, mate-
22	rials and information necessary to carry out the pro-
23	gram, which may include, with respect to the ad-
24	vanced artificial intelligence system of the covered
25	advanced artificial intelligence system developer—

(A) the underlying code of the advanced
artificial intelligence system;
(B) data used to train the advanced artifi-
cial intelligence system;
(C) model weights or other adjustable pa-
rameters for the advanced artificial intelligence
system;
(D) the interface engine or other imple-
mentation of the advanced artificial intelligence
system; and
(E) detailed information regarding the
training, model architecture, or other aspects of
the advanced artificial intelligence system.
(b) Prohibition on Deployment.—No person may
deploy an advanced artificial intelligence system for use
in interstate or foreign commerce unless that person is in
compliance with subsection (a).
compliance with subsection (a).  (c) Penalty.—A person that violates subsection (a)
(c) Penalty.—A person that violates subsection (a)
(c) Penalty.—A person that violates subsection (a) or (b) shall be fined not less than \$1,000,000 per day of
(c) Penalty.—A person that violates subsection (a) or (b) shall be fined not less than \$1,000,000 per day of the violation.
(c) Penalty.—A person that violates subsection (a) or (b) shall be fined not less than \$1,000,000 per day of the violation.  SEC. 5. ADVANCED ARTIFICIAL INTELLIGENCE EVALUA-

1	an Advanced Artificial Intelligence Evaluation Program
2	within the Department of Energy.
3	(b) ACTIVITIES.—The program shall—
4	(1) offer standardized and classified testing and
5	evaluation of advanced AI systems to systematically
6	collect data on the likelihood of adverse AI incidents
7	for a given advanced AI system;
8	(2) implement testing protocols that match or
9	exceed anticipated real-world AI jailbreaking tech-
10	niques, including adversarial testing by red teams
11	with expertise comparable to sophisticated malicious
12	actors;
13	(3) to the extent feasible, establish and facili-
14	tate classified, independent third-party assessments
15	and blind model evaluations to maintain trans-
16	parency and reliability;
17	(4) provide participating entities with a formal
18	report based on testing outcomes that clearly identi-
19	fies evaluated risks and safety measures;
20	(5) develop recommended containment proto-
21	cols, contingency planning, and mitigation strategies
22	informed by testing data to address identified risks;
23	(6) inform the creation of evidence-based stand-
24	ards, regulatory options, guidelines, and governance

1	mechanisms based on data collected from testing
2	and evaluations;
3	(7) assist Congress in determining the potential
4	for controlled AI systems to reach artificial super-
5	intelligence, exceed human oversight or operational
6	control, or pose existential threats to humanity by
7	providing comprehensive empirical evaluations and
8	risk assessments; and
9	(8) develop proposed options for regulatory or
10	governmental oversight, including potential national-
11	ization or other strategic measures, for preventing or
12	managing the development of artificial superintel-
13	ligence if artificial superintelligence seems likely to
14	arise.
15	(c) Plan for Permanent Framework.—
16	(1) In general.—Not later than 360 days
17	after the date of enactment of this Act, the Sec-
18	retary shall submit to Congress a detailed rec-
19	ommendation for Federal oversight of advanced arti-
20	ficial intelligence systems, drawing directly upon in-
21	sights, empirical data, and lessons learned from the
22	program.
23	(2) Contents.—The plan submitted under
24	paragraph (1) shall—

1	(A) summarize and analyze outcomes from
2	testing, identifying key trends, capabilities, po-
3	tential risks, and system behaviors such as
4	weaponization potential, self-replication capa-
5	bilities, scheming behaviors, autonomous deci-
6	sionmaking, and automated AI development ca-
7	pabilities;
8	(B) recommend evidence-based standards,
9	certification procedures, licensing requirements,
10	and regulatory oversight structures specifically
11	informed by testing and evaluation data, ensur-
12	ing alignment between identified risks and reg-
13	ulatory responses;
14	(C) outline proposals for automated and
15	continuous monitoring of AI hardware usage,
16	computational resource inputs, and cloud-com-
17	puting deployments based on observed relation-
18	ships between those factors and AI system per-
19	formance or emergent capabilities;
20	(D) propose adaptive governance strategies
21	that account for ongoing improvements in algo-
22	rithmic efficiency and system capabilities, en-
23	suring that regulatory frameworks remain rel-
24	evant and effective as AI technology advances;

1	(E) suggest revisions with respect to Fed-
2	eral oversight or resourcing, such as a new of-
3	fice within an existing agency, a new agency, or
4	additional funding, that may be necessary to
5	develop and administer a permanent framework
6	for oversight of advanced artificial intelligence
7	systems; and
8	(F) provide comprehensive evaluations re-
9	garding the potential for tested AI systems to
10	exceed human oversight, approach artificial
11	superintelligence, threaten economic competition
12	(including in labor markets), undermine civil
13	liberties, and pose existential risks to humanity,
14	including clearly articulated options for regu-
15	latory or governmental oversight measures to
16	address scenarios of imminent concern identi-
17	fied through testing.
18	(3) UPDATES.—Not less frequently than once
19	every year for the duration of the program, the Sec-
20	retary shall—
21	(A) update the plan submitted under para-
22	graph (1) with new insights, data, and lessons
23	from the program; and
24	(B) submit the updated plan to Congress.

14

ELT25909 6MF S.L.C.

1 (d) Sunset.—The program shall terminate on the

- 2 date that is 7 years after the date of enactment of this
- 3 Act, unless renewed by Congress.