117TH CONGRESS 2D SESSION

H. R. 7677

To provide incentives for the domestic production of printed circuit boards, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

May 6, 2022

Ms. Eshoo (for herself and Mr. Moore of Utah) introduced the following bill; which was referred to the Committee on Ways and Means, and in addition to the Committees on Energy and Commerce, and Science, Space, and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To provide incentives for the domestic production of printed circuit boards, 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 "Supporting American
- 5 Printed Circuit Boards Act of 2022".

| 1 | SEC. 2. TAX CREDIT FOR THE PURCHASE OR ACQUISITION |
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| 2 | OF PRINTED CIRCUIT BOARDS MANUFAC- |
| 3 | TURED IN THE UNITED STATES. |
| 4 | (a) In General.—Subpart D of part IV of sub- |
| 5 | chapter A of chapter 1 of the Internal Revenue Code of |
| 6 | 1986 is amended by inserting after section 45L the fol- |
| 7 | lowing new section: |
| 8 | "SEC. 45M. CREDIT FOR THE PURCHASE OR ACQUISITION |
| 9 | OF PRINTED CIRCUIT BOARDS MANUFAC- |
| 10 | TURED IN THE UNITED STATES. |
| 11 | "(a) In General.—For the purposes of section 38, |
| 12 | the credit determined under this section for the taxable |
| 13 | year is an amount equal to 25 percent of the cost paid |
| 14 | or incurred by the taxpayer for the purchase or acquisition |
| 15 | of printed circuit boards manufactured in the United |
| 16 | States for the taxable year. |
| 17 | "(b) Definitions.—For the purposes of this sec- |
| 18 | tion— |
| 19 | "(1) Printed circuit board.—The term |
| 20 | 'printed circuit board' has the meaning given such |
| 21 | term in section 3(a) of the Supporting American |
| 22 | Printed Circuit Boards Act of 2022. |
| 23 | "(2) Manufactured.—The term 'manufac- |
| 24 | tured' means all substantial actions involved in the |
| 25 | printing of a printed circuit board from raw mate- |

| 1 | rials to the integration of the completed board into |
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| 2 | an end item or component of an end item. |
| 3 | "(c) REGULATIONS AND GUIDANCE.—The Secretary |
| 4 | shall, in consultation with the Secretary of Commerce, |
| 5 | promulgate such regulations and guidance as may be nec- |
| 6 | essary or appropriate to carry out this section.". |
| 7 | (b) Conforming Amendment.— |
| 8 | (1) In general.—The table of sections for |
| 9 | subpart D of part IV of subchapter A of chapter 1 |
| 10 | of such Code is amended by inserting after the item |
| 11 | relating to section 45L the following new item: |
| | "Sec. 45M. Credit for the purchase or acquisition of printed circuit boards manufactured in the United States.". |
| 12 | (2) General Business credit.—Section |
| 13 | 38(b) of the Internal Revenue Code of 1986 is |
| 14 | amended— |
| 15 | (A) in paragraph (32), by striking "plus"; |
| 16 | (B) in paragraph (33), by striking the pe- |
| 17 | riod at the end and inserting ", plus"; and |
| 18 | (C) by adding at the end the following new |
| 19 | paragraph: |
| 20 | "(34) the credit for the purchase or acquisition |
| 21 | of printed circuit boards manufactured in the United |
| 22 | States determined under section 45M.". |

| 1 | (c) Effective Date.—The amendments made by |
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| 2 | this section shall apply to amounts paid or incurred after |
| 3 | December 31, 2021. |
| 4 | SEC. 3. INCENTIVES FOR PRINTED CIRCUIT BOARD MANU- |
| 5 | FACTURING AND RESEARCH AND DEVELOP- |
| 6 | MENT. |
| 7 | (a) DEFINITIONS.—In this section: |
| 8 | (1) CIRCUIT BOARD.—The term "circuit board" |
| 9 | means a piece of insulating material on which elec- |
| 10 | trical components are mounted and interconnected |
| 11 | by etched copper foil so patterned as to form a cir- |
| 12 | cuit. |
| 13 | (2) COVERED ENTITY.—The term "covered en- |
| 14 | tity" means a private entity, a consortium of private |
| 15 | entities, or a consortium of public and private enti- |
| 16 | ties with the ability to substantially finance, con- |
| 17 | struct, expand, or modernize a facility relating to |
| 18 | manufacturing or research and development of print- |
| 19 | ed circuit boards. |
| 20 | (3) COVERED INCENTIVE.—The term "covered |
| 21 | incentive" means— |
| 22 | (A) an incentive used for the purposes of |
| 23 | constructing, expanding, or modernizing a facil- |
| 24 | ity described in paragraph (2) that will be lo- |
| 25 | cated in the United States: and |

- 1 (B) a workforce-related incentive (includ-2 ing an agreement to provide grants for work-3 force training or vocational education), any con-4 cession with respect to real property, funding for research and development with respect to 6 printed circuit boards, and any other incentive 7 determined by the Secretary, in consultation with the Secretary of State, to be appropriate 8 9 and related to encouraging investment in facili-10 ties and equipment in the United States for manufacturing or research and development of 12 printed circuit boards.
 - ECONOMICALLY DISADVANTAGED INDI-VIDUAL.—The term "economically disadvantaged individual" means an individual described in section 8(a)(6)(A) of the Small Business Act (15 U.S.C. 637(a)(6)(A).
 - (5) Foreign entity; foreign entity of CONCERN.—The terms "foreign entity" and "foreign entity of concern" have the meanings given such terms in section 9901 of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 (Public Law 116–283; 15 U.S.C. 4651).

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- 1 (6) HISTORICALLY BLACK COLLEGE OR UNI-2 VERSITY.—The term "historically Black college or 3 university" has the meaning given the term "part B 4 institution" in section 322 of the Higher Education 5 Act of 1965 (20 U.S.C. 1061).
 - (7) Institution of Higher Education.—The term "institution of higher education" has the meaning given such term in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001).
 - (8) Integrated circuit substrate" means the supporting material upon or within which an integrated circuit is fabricated or to which an integrated circuit is attached.
 - (9) INTELLIGENCE COMMUNITY.—The term "intelligence community" has the meaning given that term in section 3 of the National Security Act of 1947 (50 U.S.C. 3003).
 - (10) MINORITY-OWNED BUSINESS AND WOMEN-OWNED BUSINESS.—The terms "minority-owned business" and "women-owned business" have the meanings given such terms in section 704B(h) of the Equal Credit Opportunity Act (15 U.S.C. 1691c–2(h)).

| 1 | (11) MINORITY-SERVING INSTITUTION.—The |
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| 2 | term "minority-serving institution" means any of |
| 3 | the following: |
| 4 | (A) An Alaska Native-serving institution |
| 5 | (as that term is defined in section 317(b) of the |
| 6 | Higher Education Act of 1965 (20 U.S.C. |
| 7 | 1059d(b))). |
| 8 | (B) A Native Hawaiian-serving institution |
| 9 | (as that term is defined in section 317(b) of |
| 10 | such Act (20 U.S.C. 1059d(b))). |
| 11 | (C) A Predominantly Black institution (as |
| 12 | that term is defined in section 371(c) of such |
| 13 | Act (20 U.S.C. 1067q(e))). |
| 14 | (D) An Asian American and Native Amer- |
| 15 | ican Pacific Islander-serving institution (as that |
| 16 | term is defined in section 320(b) of such Act |
| 17 | (20 U.S.C. 1059g(b))). |
| 18 | (E) A Native American-serving, nontribal |
| 19 | institution (as that term is defined in section |
| 20 | 319(b) of such Act (20 U.S.C. $1059f(b)$)). |
| 21 | (12) Person.—The term "person" means an |
| 22 | individual or entity. |
| 23 | (13) Printed circuit board.—The term |
| 24 | "printed circuit board" means a circuit board on |
| 25 | which a pattern of copper foil connecting the compo- |

- nents has been etched or printed, including boards
 with printed circuits on both sides and boards with
 printed circuits on one side only, for the mounting
 of components on which most connections are made
 by printed circuitry.
 - (14) PROGRAM.—The term "Program" means the program established under subsection (b)(1).
 - (15) SECRETARY.—The term "Secretary" means the Secretary of Commerce.
 - (16) SMALL BUSINESS.—The term "small business" has the meaning given the term "small business concern" under section 3(a) of the Small Business Act (15 U.S.C. 632(a)), except that section 121.103 of title 13, Code of Federal Regulations (or any successor regulation) shall not apply.
 - (17) STATE.—The term "State" means each State of the United States, the District of Columbia, each commonwealth, territory, or possession of the United States, and each federally recognized Indian Tribe.
 - (18) Veteran-owned business" has the meaning given the term "small business concern owned and controlled by veterans" in section 3(q) of the Small Business Act (15 U.S.C. 632(q)).

(b) FINANCIAL ASSISTANCE PROGRAM.—

(1) In General.—The Secretary shall establish a program that, in accordance with the requirements of this section and subject to the availability of appropriations for such purposes, provides Federal financial assistance to covered entities to incentivize investment in facilities and equipment in the United States for manufacturing or research and development of printed circuit boards.

(2) Procedure.—

- (A) IN GENERAL.—A covered entity shall submit to the Secretary an application that describes the project for which the covered entity is seeking financial assistance under the Program.
- (B) ELIGIBILITY.—Except as provided in subparagraph (C), in order for a covered entity to qualify for financial assistance under the Program, the covered entity shall demonstrate to the Secretary, in the application submitted by the covered entity under subparagraph (A), that—
 - (i) the covered entity has a documented interest in carrying out a project that is a covered incentive; and

| 1 | (ii) with respect to the project de- |
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| 2 | scribed in clause (i), the covered entity |
| 3 | has— |
| 4 | (I) a plan the Secretary deter- |
| 5 | mines to be executable to sustain the |
| 6 | covered incentive described in clause |
| 7 | (i) without additional Federal finan- |
| 8 | cial assistance under the Program for |
| 9 | facility support; |
| 10 | (II) made commitments to work- |
| 11 | er and community investment, includ- |
| 12 | ing through— |
| 13 | (aa) training and education |
| 14 | benefits provided by or paid for |
| 15 | by the covered entity; and |
| 16 | (bb) programs to expand |
| 17 | employment opportunity for eco- |
| 18 | nomically disadvantaged individ- |
| 19 | uals; and |
| 20 | (III) secured commitments from |
| 21 | regional educational and training enti- |
| 22 | ties, postsecondary vocational institu- |
| 23 | tions (defined in section 102(c) of the |
| 24 | Higher Education Act of 1965 (20 |
| 25 | U.S.C. 1002(c))), or institutions of |

| 1 | higher education to provide workforce |
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| 2 | training, including programming for |
| 3 | training and job placement of eco- |
| 4 | nomically disadvantaged individuals. |
| 5 | (C) SMALL BUSINESS EXCEPTION.—The |
| 6 | requirements in subclauses (II) and (III) of |
| 7 | subparagraph (B)(ii) do not apply to small |
| 8 | businesses. |
| 9 | (D) DUE DILIGENCE.—With respect to the |
| 10 | review by the Secretary of an application sub- |
| 11 | mitted by a covered entity under subparagraph |
| 12 | (A), the Secretary may not approve the applica- |
| 13 | tion unless the Secretary— |
| 14 | (i) confirms that the covered entity |
| 15 | has satisfied the applicable eligibility cri- |
| 16 | teria under subparagraph (B); and |
| 17 | (ii) determines that the project to |
| 18 | which the application relates is in the in- |
| 19 | terest of the United States. |
| 20 | (E) Considerations for review.—— |
| 21 | (i) In general.—Except as provided |
| 22 | in clause (ii), with respect to the review by |
| 23 | the Secretary of an application submitted |
| 24 | by a covered entity under subparagraph |

| 1 | (A), the Secretary shall consider whether |
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| 2 | the covered entity has— |
| 3 | (I) previously received financial |
| 4 | assistance under the Program; and |
| 5 | (II) demonstrated that it is re- |
| 6 | sponsive to the national security needs |
| 7 | or requirements established by the in- |
| 8 | telligence community (or an agency |
| 9 | thereof), the National Nuclear Secu- |
| 10 | rity Administration, or the Depart- |
| 11 | ment of Defense. |
| 12 | (ii) Small businesses excluded.— |
| 13 | Clause (i)(I) does not apply with respect to |
| 14 | an application submitted by a small busi- |
| 15 | ness under subparagraph (A). |
| 16 | (F) Preferences.—The Secretary shall, |
| 17 | when practicable, give preference with respect |
| 18 | to the approval of an application submitted |
| 19 | under subparagraph (A) by a covered entity |
| 20 | that— |
| 21 | (i) is a small business, minority-owned |
| 22 | business, women-owned business, or vet- |
| 23 | eran-owned business; |

| 1 | (ii) expands the United States produc- |
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| 2 | tion capacity of integrated circuit sub- |
| 3 | strates; |
| 4 | (iii) is relocating a manufacturing fa- |
| 5 | cility of printed circuit boards currently lo- |
| 6 | cated in an area owned by, controlled by, |
| 7 | or subject to the jurisdiction or direction of |
| 8 | a foreign entity of concern; or |
| 9 | (iv) includes a workforce training pro- |
| 10 | gram that secures commitments from an |
| 11 | institution of higher education that is— |
| 12 | (I) a historically Black college or |
| 13 | university; |
| 14 | (II) a Hispanic-serving institu- |
| 15 | tion (as such term is defined in sec- |
| 16 | tion 502(a) of the Higher Education |
| 17 | Act of 1965 (20 U.S.C. 1101a(a))); |
| 18 | (III) a Tribal College or Univer- |
| 19 | sity (as such term is defined in sec- |
| 20 | tion 316(b) of the Higher Education |
| 21 | Act of 1965 (20 U.S.C. 1059c(b))); |
| 22 | (IV) a minority-serving institu- |
| 23 | tion; or |
| 24 | (V) a rural-serving institution of |
| 25 | higher education (as such term is de- |

| 1 | fined in section 861(b) of the Higher |
|----|--|
| 2 | Education Act of 1965 (20 U.S.C. |
| 3 | 1161q(b))). |
| 4 | (G) Foreign entities of concern ex- |
| 5 | CLUSION.— |
| 6 | (i) The Secretary may not approve an |
| 7 | application of a covered entity if the Sec- |
| 8 | retary determines that the covered entity is |
| 9 | a foreign entity of concern. |
| 10 | (ii) None of the funds authorized to |
| 11 | be appropriated to carry out this sub- |
| 12 | section may be provided to a foreign entity |
| 13 | of concern. |
| 14 | (H) RECORDS PRODUCTION.— |
| 15 | (i) IN GENERAL.—The Secretary may |
| 16 | request from a covered entity that submits |
| 17 | an application under subparagraph (A) any |
| 18 | records and other information that the |
| 19 | Secretary determines necessary for the |
| 20 | purposes of ascertaining whether an award |
| 21 | under the Program will be used for the |
| 22 | covered incentive for which such award is |
| 23 | sought, including records or other informa- |
| 24 | tion regarding the status of such project. |

| 1 | (ii) Funding restriction.—No cov- |
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| 2 | ered entity that fails to provide records or |
| 3 | information requested by the Secretary |
| 4 | under this subparagraph shall be eligible |
| 5 | for Federal financial assistance under the |
| 6 | Program if such records or information are |
| 7 | reasonably available to such covered entity. |
| 8 | (3) Amount.— |
| 9 | (A) IN GENERAL.—The Secretary shall de- |
| 10 | termine the appropriate amount and funding |
| 11 | type for each financial assistance award made |
| 12 | to a covered entity under the Program. |
| 13 | (B) Larger investment.—The amount |
| 14 | awarded under the Program with respect to any |
| 15 | individual project may not exceed \$150,000,000 |
| 16 | unless the Secretary, in consultation with the |
| 17 | Secretary of Defense and the Director of Na- |
| 18 | tional Intelligence, recommends to the Presi- |
| 19 | dent, and the President notifies Congress, that |
| 20 | a larger award is necessary to— |
| 21 | (i) significantly increase the supply of |
| 22 | reliable, domestically produced printed cir- |
| 23 | cuit boards that are relevant for the na- |
| 24 | tional security and economic competitive- |
| 25 | ness of the United States; and |

| 1 | (ii) meet the needs of national secu- |
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| 2 | rity. |
| 3 | (4) Use of funds.— |
| 4 | (A) In general.—Except as provided by |
| 5 | subparagraph (B), a covered entity that re- |
| 6 | ceives a financial assistance award under the |
| 7 | Program may only use the financial assistance |
| 8 | award amounts— |
| 9 | (i) for a covered incentive; and |
| 10 | (ii) to pay reasonable costs related to |
| 11 | the operating expenses for such covered in- |
| 12 | centive, including costs relating to the spe- |
| 13 | cialized workforce, essential materials, and |
| 14 | complex equipment maintenance, as deter- |
| 15 | mined by the Secretary. |
| 16 | (B) Larger investments.—If the |
| 17 | amount awarded under the Program with re- |
| 18 | spect to the project is more than \$150,000,000 |
| 19 | the covered entity that received such award may |
| 20 | use such amounts only for the purposes de- |
| 21 | scribed in subparagraph (A) to the extent that |
| 22 | such use meets the national security needs or |
| 23 | enhances the economic competitiveness of the |
| 24 | United States. |
| 25 | (5) Clawback.— |

| 1 | (A) DELAY CLAWBACK.— |
|----|---|
| 2 | (i) Target dates.—With respect to |
| 3 | any award made under the Program, the |
| 4 | Secretary shall— |
| 5 | (I) determine target dates by |
| 6 | which the project with respect to |
| 7 | which such award was made shall |
| 8 | commence and complete; and |
| 9 | (II) set such dates by the time of |
| 10 | the award. |
| 11 | (ii) Progressive recovery for |
| 12 | DELAYS.—If a project is not commenced |
| 13 | and completed by the dates determined |
| 14 | under clause (i) for such project, the Sec- |
| 15 | retary shall progressively recover from the |
| 16 | recipient of the award for such project up |
| 17 | to the full amount of such award. |
| 18 | (iii) Waiver.—In the case of a |
| 19 | project that is not commenced or com- |
| 20 | pleted by the dates determined under |
| 21 | clause (i) for such project, the Secretary |
| 22 | may waive elements of the clawback provi- |
| 23 | sions incorporated in the award made |
| 24 | under the Program for such project only if. |

| 1 | prior to granting such waiver, the Sec- |
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| 2 | retary— |
| 3 | (I) makes a formal determination |
| 4 | that circumstances beyond the ability |
| 5 | of the covered entity to foresee or con- |
| 6 | trol are responsible for delays; and |
| 7 | (II) submits a notice to Congress. |
| 8 | (B) TECHNOLOGY CLAWBACK.—The Sec- |
| 9 | retary may recover the full amount of any |
| 10 | award made under the Program from the re- |
| 11 | cipient of the award if, during the period deter- |
| 12 | mined under subparagraph (A)(i) for the |
| 13 | project with respect to which such award was |
| 14 | made, the recipient knowingly engages in any |
| 15 | joint research or technology licensing effort |
| 16 | with a foreign entity of concern that relates to |
| 17 | a technology or product that raises national se- |
| 18 | curity concerns, as determined by the Secretary. |
| 19 | (C) Notification to congress.— |
| 20 | (i) In general.—The Secretary shall |
| 21 | notify Congress of— |
| 22 | (I) the clawback provisions at- |
| 23 | tending each award described in sub- |
| 24 | paragraph (A)(i); and |

| 1 | (II) each waiver provided under |
|----|---|
| 2 | subparagraph (A)(iii) not later than |
| 3 | 15 days after the date on which the |
| 4 | Secretary provides such waiver. |
| 5 | (ii) Waiver notice contents.—The |
| 6 | notice required under clause (i)(II) shall |
| 7 | include— |
| 8 | (I) the elements of the clawback |
| 9 | provisions that were waived under |
| 10 | subparagraph (A)(iii); |
| 11 | (II) an explanation of why such |
| 12 | waiver was provided; |
| 13 | (III) the duration of the delay |
| 14 | with respect to which such waiver was |
| 15 | granted; and |
| 16 | (IV) the name of the covered en- |
| 17 | tity that was granted such waiver. |
| 18 | (c) COORDINATION REQUIRED.—In carrying out the |
| 19 | Program, the Secretary shall coordinate with— |
| 20 | (1) the Secretary of State; |
| 21 | (2) the Secretary of Defense; |
| 22 | (3) the Secretary of Energy; |
| 23 | (4) the Director of National Intelligence; |
| 24 | (5) the Director of the Minority Business De- |
| 25 | velopment Agency of the Department of Commerce: |

| 1 | (6) the Administrator of the Small Business |
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| 2 | Administration; |
| 3 | (7) the Director of the National Institute of |
| 4 | Standards and Technology; |
| 5 | (8) the Director of the Cybersecurity and Infra- |
| 6 | structure Agency; and |
| 7 | (9) the Director of the Office of Foreign Assets |
| 8 | Control of the Department of the Treasury. |
| 9 | (d) GAO REVIEWS.—The Comptroller General of the |
| 10 | United States shall— |
| 11 | (1) not later than 2 years after the date of dis- |
| 12 | bursement of the first award under the Program, |
| 13 | and biennially thereafter for 10 years, conduct a re- |
| 14 | view of the Program, which shall include— |
| 15 | (A) a determination of the number of |
| 16 | awards provided under the Program during the |
| 17 | two-year period immediately preceding the re- |
| 18 | view; |
| 19 | (B) an evaluation of how— |
| 20 | (i) such program is being carried out |
| 21 | including how recipients of awards under |
| 22 | the Program are being selected; and |
| 23 | (ii) other Federal programs are lever- |
| 24 | aged for manufacturing, research, and |

| 1 | training to complement the awards made |
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| 2 | under the Program; and |
| 3 | (C) a description of the outcomes of |
| 4 | projects supported by awards made under the |
| 5 | Program, including a description of— |
| 6 | (i) facilities described in subsection |
| 7 | (b)(1) that were constructed, expanded, or |
| 8 | modernized as a result of such awards; |
| 9 | (ii) research and development carried |
| 10 | out with such awards; |
| 11 | (iii) workforce training programs car- |
| 12 | ried out with such awards, including ef- |
| 13 | forts to hire economically disadvantaged |
| 14 | individuals; and |
| 15 | (iv) the effects of such projects on the |
| 16 | United States share of global printed cir- |
| 17 | cuit board production; and |
| 18 | (2) notify Congress of the results of each review |
| 19 | conducted under paragraph (1). |
| 20 | (e) Authorization of Appropriations.—There is |
| 21 | authorized to be appropriated \$3,000,000,000 for fiscal |
| 22 | year 2022, to remain available through fiscal year 2023, |
| 23 | to carry out this section. |