

117TH CONGRESS  
1ST SESSION

# H. R. 2279

To establish the Office of Manufacturing and Industrial Innovation Policy and strategic national manufacturing policy for the United States, to provide manufacturing and industrial perspective and advice to the President, to provide for a comprehensive survey and cross administration management of efforts to ensure global leadership in manufacturing critical to the long-term economic health and national security of the United States, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 29, 2021

Ms. KAPTUR (for herself, Mr. RYAN, Ms. STEVENS, Mr. FITZPATRICK, and Mr. FLEISCHMANN) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committees on Science, Space, and Technology, and Financial Services, 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

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## A BILL

To establish the Office of Manufacturing and Industrial Innovation Policy and strategic national manufacturing policy for the United States, to provide manufacturing and industrial perspective and advice to the President, to provide for a comprehensive survey and cross administration management of efforts to ensure global leadership in manufacturing critical to the long-term economic health and national security of the United States, 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; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the  
 5 “Office of Manufacturing and Industrial Innovation Policy  
 6 Act of 2021”.

7 (b) TABLE OF CONTENTS.—The table of contents is  
 8 as follows:

Sec. 1. Short title; table of contents.

TITLE I—NATIONAL MANUFACTURING POLICY AND PRIORITIES

Sec. 101. Findings.

Sec. 102. Sense of Congress.

TITLE II—OFFICE OF MANUFACTURING AND INDUSTRIAL  
 INNOVATION POLICY

Sec. 201. Establishment.

Sec. 202. Chief Manufacturing Officer; Associate Manufacturing Officers.

Sec. 203. Policy planning, analysis, and advice.

Sec. 204. National strategic plan for manufacturing and industrial innovation.

Sec. 205. Additional Functions of the Chief Manufacturing Officer; Administra-  
 tive Provisions.

Sec. 206. Manufacturing and industrial innovation report.

Sec. 207. Comptroller General Report.

TITLE III—PRESIDENT’S ADVISORY COMMITTEE ON  
 MANUFACTURING AND INDUSTRIAL INNOVATION

Sec. 301. Establishment.

Sec. 302. Membership.

Sec. 303. Federal Manufacturing and Industrial Innovation Survey.

Sec. 304. Continuation of Committee.

Sec. 305. Staff and consultant support.

TITLE IV— FEDERAL STRATEGY AND COORDINATING COUNCIL  
 ON MANUFACTURING AND INDUSTRIAL INNOVATION

Sec. 401. Establishment.

Sec. 402. Membership.

Sec. 403. Council on Manufacturing and Industrial Innovation Efforts.

Sec. 404. Coordination.

Sec. 405. Administration.

TITLE V—MANUFACTURING AND INDUSTRIAL INNOVATION  
 POLICY INSTITUTE

Sec. 501. Establishment.  
 Sec. 502. Incorporation.  
 Sec. 503. Duties.  
 Sec. 504. Consultation of Institute activities.  
 Sec. 505. Annual Reports.  
 Sec. 506. Sponsorship.

TITLE VI—NATIONAL MEDAL OF MANUFACTURING AND  
 INDUSTRIAL INNOVATION

Sec. 601. Award.

TITLE VII—GENERAL PROVISIONS

Sec. 701. Authorization of appropriations.

1 **TITLE I—NATIONAL MANUFAC-**  
 2 **TURING POLICY AND PRIOR-**  
 3 **ITIES**

4 **SEC. 101. FINDINGS.**

5 Congress, recognizing the profound historical role  
 6 that all aspects of manufacturing, including research and  
 7 development, engineering, skilled trades, and production,  
 8 has played in the economy and society of the United  
 9 States, and in the economic and innovative standing of  
 10 the United States in the global community, and the inter-  
 11 relations of robust manufacturing on economic, environ-  
 12 mental, national security, social, political, and institutional  
 13 factors, finds that—

14 (1) the general welfare, security, and economic  
 15 health and stability of the United States require a  
 16 long-term, substantial, coordinated, and multidisci-  
 17 plinary strategy and implementation of cohesive ob-  
 18 jectives to remain at the forefront of industrial inno-  
 19 vation;

1           (2) the large and complex innovative and tech-  
2           nological capabilities of global supply chains and  
3           manufacturing economies, which influence the course  
4           of national and international manufacturing and in-  
5           novative relevance, require appropriate attention, in-  
6           cluding long-range inclusive planning and more im-  
7           mediate program development, to encourage and  
8           support private manufacturing growth in the United  
9           States and participation in the public decision-mak-  
10          ing process;

11          (3) the innovative and manufacturing capabili-  
12          ties of business in the United States, when properly  
13          fostered, applied, and supported, can effectively as-  
14          sist in improving the quality of life of people in the  
15          United States, in anticipating and addressing emerg-  
16          ing international, national, and local problems, and  
17          strengthening the international economic engage-  
18          ment and pioneering leadership of the United States;

19          (4) just as Federal funding for science and  
20          technology represents an investment in the future,  
21          strategically addressing gaps in the innovation pipe-  
22          line of the United States would—

23                  (A) contribute to converting research and  
24                  development investments into high-value, qual-

1           ity job-creating product production and capture  
2           domestic and global markets; and

3                   (B) strengthen the economic posture of the  
4           United States; and

5           (5) the capabilities of the United States at both  
6           the Federal and State levels need enhanced strategic  
7           planning and influence over policy formulation for  
8           industrial innovation and technology development, as  
9           well as a means to ensure an adequate workforce.

10 **SEC. 102. SENSE OF CONGRESS.**

11           (a) **PRIORITY GOALS.**—It is the sense of Congress  
12 that manufacturing and industrial innovation should in-  
13 clude contributing to the following priority goals:

14                   (1) Taking concrete national action to rebuild,  
15           restore, and expand domestic manufacturing capa-  
16           bilities, skills, and production capacity, including  
17           world-class infrastructure.

18                   (2) Rebuilding the industrial innovation com-  
19           mons, to include common resources, technical knowl-  
20           edge, and entrepreneurial opportunities associated  
21           with technical ideas.

22                   (3) Supporting domestic supply chains.

23                   (4) Expanding production capabilities, coopera-  
24           tion, and knowledge.

1           (5) Revitalizing communities harmed by histor-  
2           ical and poorly conceived, implemented, and enforced  
3           regulatory and trade policies.

4           (6) Developing a strategy for innovation and es-  
5           tablishment of manufacturing industries of the fu-  
6           ture, including adoption and production of Industry  
7           4.0 technology to support domestic economic expan-  
8           sion, particularly manufacturers with fewer than 800  
9           employees, and in traditionally underserved commu-  
10          nities.

11          (7) Contributing to national health and security  
12          and emergency readiness and resilience, including  
13          addressing environmental concerns.

14          (8) Strengthening the economy of the United  
15          States and promoting full employment in high-qual-  
16          ity, high-wage jobs through useful industrial and  
17          technological innovation.

18          (9) Cultivating, utilizing, and enhancing aca-  
19          demic and industrial thought-leadership with prac-  
20          tical workforce development and training to the full-  
21          est extent possible.

22          (10) Implementing a national strategy that  
23          identifies and prioritizes high growth, high value-  
24          added industries, products, and components of na-  
25          tional importance to the long-term economic, envi-

1       ronmental, national security, and public health of  
2       the United States.

3       (b) NATIONAL POLICY.—In view of the findings  
4       under section 101, it is the sense of Congress that the  
5       Federal Government and public and private institutions  
6       in the United States should pursue a national policy of  
7       manufacturing and industrial innovation that includes the  
8       following principles:

9               (1) Ensuring global leadership in advanced  
10              manufacturing technologies critical to the long-term  
11              economic, environmental, national security, and pub-  
12              lic health of the United States.

13             (2) Restoring and strengthening the industrial  
14              commons of the United States, which include—

15                (A) essential engineering and production  
16                skills;

17                (B) infrastructure for research and devel-  
18                opment, standardization, and metrology;

19                (C) process innovations and manufacturing  
20                know-how;

21                (D) equipment; and

22                (E) suppliers that provide the foundation  
23                for the innovativeness and competitiveness of all  
24                manufacturers in the United States.

1           (3) Strengthening the technical, financial, and  
2           educational commons and assets necessary to ensure  
3           that the United States is the best positioned nation  
4           for the creation and production of advanced tech-  
5           nologies and products emerging from national re-  
6           search and development investments.

7           (4) Capitalizing on the scientific and techno-  
8           logical advances produced by researchers and  
9           innovators in the United States by developing capa-  
10          ble and responsive institutions focused on advancing  
11          the technology and manufacturing readiness levels of  
12          those advances.

13          (5) Supporting the discovery, invention, start-  
14          up, ramp-up, scale-up, and transition of new prod-  
15          ucts and manufacturing technologies to full-scale  
16          production in the United States.

17          (6) Addressing the evolving needs of manufac-  
18          turers for a diverse set of workers with the nec-  
19          essary skills, training, and expertise as manufactur-  
20          ers in the United States increase high-quality, high-  
21          wage employment opportunities.

22          (7) Improving and expanding manufacturing  
23          engineering and technology offerings within institu-  
24          tions of higher education, including 4-year engineer-  
25          ing technology programs at polytechnic institutes



1 and secondary schools, to be more closely aligned  
2 with the needs of manufacturers in the United  
3 States and the goal of strengthening the long-term  
4 competitiveness of such manufacturing.

5 (8) Working collaboratively with Federal agen-  
6 cies, State and local governments, Tribal govern-  
7 ments, regional authorities, institutions of higher  
8 education, economic development organizations, and  
9 labor organizations that primarily represent workers  
10 in manufacturing to leverage their knowledge, re-  
11 sources, applied research, experimental development,  
12 and programs to foster manufacturing in the United  
13 States so as to anticipate and prepare for emer-  
14 gencies and global, national, and regional supply  
15 chain disruptions, including disruptions brought on  
16 and exacerbated by changing environmental and  
17 other circumstances.

18 (9) Recognizing that, as changing cir-  
19 cumstances require the periodic revision and adapta-  
20 tion of this title, the Congress is responsible for—

21 (A) identifying and interpreting the  
22 changes in those circumstances as they occur;  
23 and

24 (B) affecting subsequent changes to this  
25 title as appropriate.

1 (c) PROCEDURES.—It is the sense of Congress that,  
2 in order to expedite and facilitate the implementation of  
3 the national policy described in subsection (b)—

4 (1) Federal procurement policy should—

5 (A) prioritize and encourage domestic  
6 manufacturing and robust domestic supply  
7 chains;

8 (B) support means of expanding domestic  
9 manufacturing job creation;

10 (C) enhance manufacturing workforce pre-  
11 paredness;

12 (D) prioritize the development of means to  
13 support diversity and inclusion throughout the  
14 manufacturing and industrial sector;

15 (E) promote the consideration of, and sup-  
16 port to, minority-owned and women-owned man-  
17 ufacturing contractors of the Federal Govern-  
18 ment; and

19 (F) support the ingenuity and entrepre-  
20 neurship of the United States by providing en-  
21 hanced attention to manufacturing startups and  
22 small businesses in the United States;

23 (2) Federal trade and monetary policies  
24 should—

1 (A) ensure that global competition in man-  
2 ufacturing is free, open, and fair;

3 (B) prioritize policies and investments that  
4 support domestic manufacturing growth and in-  
5 novation; and

6 (C) not be utilized to offshore poor manu-  
7 facturing working conditions or destructive  
8 manufacturing environmental practices;

9 (3) Federal policies and practices should rea-  
10 sonably prioritize competitiveness for manufacturing  
11 and industrial innovation efforts in the United  
12 States, but should not sacrifice the quality of em-  
13 ployment opportunities, including the health and  
14 safety of workers, pay, and benefits;

15 (4) Federal manufacturing and industrial inno-  
16 vation policies, practices, and priorities should rea-  
17 sonably improve environmental sustainability within  
18 the manufacturing industry, while minimizing eco-  
19 nomic impact;

20 (5) Federal patent policies should be developed,  
21 based on uniform principles, which have as their ob-  
22 jective to preserve incentives for industrial techno-  
23 logical innovation and the application of procedures  
24 that will continue to assure the full use of beneficial  
25 technology to serve the public;

1           (6) Federal efforts should promote and support  
2           a strong system of intellectual property rights to in-  
3           clude trade secrets, through both protection of intel-  
4           lectual property rights and enforcement against in-  
5           tellectual property theft, and broad engagement to  
6           limit foreign efforts to illegally or inappropriately  
7           utilize compromised intellectual property;

8           (7) closer relationships should be encouraged  
9           among practitioners of scientific and technological  
10          research and development and those who apply those  
11          foundations to domestic commercial manufacturing;

12          (8) the full use of the contributions of manufac-  
13          turing and industrial innovation to support State  
14          and local government goals should be encouraged;

15          (9) formal recognition should be accorded to  
16          those persons, the manufacturing and industrial in-  
17          novation achievements of which contributed signifi-  
18          cantly to the national welfare; and

19          (10) departments, agencies, and instrumental-  
20          ities of the Federal Government should establish  
21          procedures to ensure among them the systematic  
22          interchange of data, efforts, and findings developed  
23          under their programs.

1 (d) IMPLEMENTATION.—To implement the national  
2 policy described in subsection (b), it is the sense of Con-  
3 gress—

4 (1) that—

5 (A) the Federal Government should main-  
6 tain integrated policy planning elements in the  
7 executive branch that assist agencies in such  
8 branch in—

9 (i) identifying problems and objectives  
10 that could be addressed or enhanced by  
11 public policy;

12 (ii) mobilizing industrial and innova-  
13 tive manufacturing resources for national  
14 security and emergency response purposes;

15 (iii) securing appropriate funding for  
16 programs so identified by the President or  
17 the Chief Manufacturing Officer;

18 (iv) anticipating future concerns to  
19 which industrial and innovative manufac-  
20 turing can contribute and devise industrial  
21 strategies for such purposes; and

22 (v) reviewing systematically the manu-  
23 facturing and industrial innovation policy  
24 and programs of the Federal Government  
25 and recommending legislative amendments

1 to those policies and programs when need-  
2 ed; and

3 (B) the elements described in subpara-  
4 graph (A) should include a data collection, anal-  
5 ysis, and advisory mechanism within the Execu-  
6 tive Office of the President to provide the Presi-  
7 dent with independent, expert judgment and as-  
8 sessments of the complex manufacturing and  
9 industrial features involved; and

10 (2) that it is the responsibility of the Federal  
11 Government to—

12 (A) promote prompt, effective, reliable, and  
13 systematic dissemination of manufacturing and  
14 industrial information—

15 (i) by such methods as may be appro-  
16 priate; and

17 (ii) through efforts conducted by non-  
18 governmental organizations, including in-  
19 dustrial groups, technical societies, and  
20 educational entities;

21 (B) coordinate and develop a manufac-  
22 turing industrial strategy and facilitate the  
23 close coupling of this manufacturing strategy  
24 with commercial manufacturing application;  
25 and

1 (C) enhance domestic development and uti-  
2 lization of such industrial information by  
3 prioritization of efforts with manufacturers, the  
4 production of which takes place in the United  
5 States.

6 **TITLE II—OFFICE OF MANUFAC-**  
7 **TURING AND INDUSTRIAL IN-**  
8 **NOVATION POLICY**

9 **SEC. 201. ESTABLISHMENT.**

10 There is established in the Executive Office of the  
11 President an Office of Manufacturing and Industrial Inno-  
12 vation Policy (referred to in this title as the “Office”) to  
13 serve as a source of manufacturing and industrial innova-  
14 tion analysis and judgment for the President with respect  
15 to the major policies, plans, and programs of the Federal  
16 Government relating to manufacturing and industrial in-  
17 novation.

18 **SEC. 202. CHIEF MANUFACTURING OFFICER; ASSOCIATE**  
19 **MANUFACTURING OFFICERS.**

20 (a) CHIEF MANUFACTURING OFFICER.—

21 (1) IN GENERAL.—The Office shall be headed  
22 by a Director, to be known as the Chief Manufac-  
23 turing Officer, who shall be—

24 (A) appointed by the President, by and  
25 with the advice and consent of the Senate; and

1 (B) compensated at the rate provided for  
2 level II of the Executive Schedule under section  
3 5313 of title 5, United States Code.

4 (2) FUNCTIONS.—

5 (A) PRIMARY FUNCTION.—The primary  
6 function of the Chief Manufacturing Officer  
7 shall be to advise the President, and such agen-  
8 cies within the Executive Office of the Presi-  
9 dent as may be appropriate, on issues regarding  
10 and impacting manufacturing and industrial in-  
11 novation efforts of the Federal Government, or  
12 of the private sector, that require attention at  
13 the highest levels of the Federal Government.

14 (B) OTHER FUNCTIONS.—The Chief Man-  
15 ufacturing Officer shall—

16 (i) advise the President on manufac-  
17 turing and industrial innovation consider-  
18 ations relating to areas of national con-  
19 cern, including—

20 (I) the economy of the United  
21 States;

22 (II) national security;

23 (III) public health;

24 (IV) the workforce of the United  
25 States;



- 1 (V) education;
- 2 (VI) foreign relations (including
- 3 trade and supply chain issues);
- 4 (VII) the environment; and
- 5 (VIII) technological innovation in
- 6 the United States;
- 7 (ii) convene stakeholders, including
- 8 key industry stakeholders, academic stake-
- 9 holders, defense stakeholders, government
- 10 stakeholders, and stakeholders from non-
- 11 profit organizations and labor organiza-
- 12 tions that primarily represent workers in
- 13 manufacturing, to develop the national
- 14 strategic plan required under section 204;
- 15 (iii) evaluate the scale, quality, and ef-
- 16 fectiveness of the effort of the Federal
- 17 Government to support manufacturing and
- 18 industrial innovation by the Federal Gov-
- 19 ernment or by the private sector, and ad-
- 20 vise on appropriate actions;
- 21 (iv) advise the President on the budg-
- 22 ets of agencies of the executive branch of
- 23 the Federal Government with respect to
- 24 issues concerning manufacturing and in-
- 25 dustrial innovation;

1 (v) assist the Director of the Office of  
2 Management and Budget with an annual  
3 review and analysis of the budget proposed  
4 by the President, with respect to manufac-  
5 turing and industrial development by agen-  
6 cies in the executive branch;

7 (vi) aid the Director of the Office of  
8 Management and Budget and the heads of  
9 agencies of the executive branch of the  
10 Federal Government throughout the budg-  
11 et development process, particularly with  
12 respect to developing budgets to support  
13 manufacturing and industrial development;

14 (vii) assist the President in providing  
15 general leadership and coordination of ac-  
16 tivities and policies of the Federal Govern-  
17 ment relating to and impacting manufac-  
18 turing and industrial innovation; and

19 (viii) perform such other functions,  
20 duties, and activities as the President may  
21 assign.

22 (3) AUTHORITIES.—In carrying out the duties  
23 and functions under this Act, the Chief Manufac-  
24 turing Officer may—

1 (A) except for the positions described in  
2 subsection (b), appoint such officers and em-  
3 ployees as may be deemed necessary to perform  
4 the functions vested in the position and to pre-  
5 scribe the duties of such officers and employees;

6 (B) obtain services as authorized under  
7 section 3109 of title 5, United States Code, at  
8 rates not to exceed the rate prescribed for  
9 grade GS-15 of the General Schedule under  
10 section 5332 of title 5, United States Code; and

11 (C) enter into contracts and other arrange-  
12 ments for studies, analysis, and other services  
13 with public agencies and with private persons,  
14 organizations, or institutions, and make such  
15 payments as determined necessary to carry out  
16 the provisions of this title without legal consid-  
17 eration, without performance bonds, and with-  
18 out regard to section 6101 of title 41, United  
19 States Code.

20 (b) ASSOCIATE DIRECTORS.—

21 (1) IN GENERAL.—The President may appoint  
22 not more than 5 Associate Directors, to be known as  
23 Associate Manufacturing Officers, by and with the  
24 advice and consent of the Senate, to carry out such

1 functions as may be prescribed by the Chief Manu-  
2 facturing Officer.

3 (2) COMPENSATION.—Each Associate Manufac-  
4 turing Officer shall be compensated at a rate not to  
5 exceed that provided for level III of the Executive  
6 Schedule under section 5314 title 5, United States  
7 Code.

8 **SEC. 203. POLICY PLANNING, ANALYSIS, AND ADVICE.**

9 (a) IN GENERAL.—In carrying out the provisions of  
10 this Act, the Chief Manufacturing Officer shall—

11 (1) monitor the status of technological develop-  
12 ments, critical production capacity, skill availability,  
13 investment patterns, emerging defense needs, and  
14 other key indicators of manufacturing competitive-  
15 ness to—

16 (A) provide foresight for periodic updates  
17 to the national strategic plan required under  
18 section 204; and

19 (B) guide investment decisions;

20 (2) convene interagency and public-private  
21 working groups to align Federal policies that drive  
22 implementation of the national strategic plan re-  
23 quired under section 204;

24 (3) initiate and support translational research  
25 in engineering and manufacturing by entering into

1 contracts or making other arrangements (including  
2 grants, awards, cooperative agreements, loans, and  
3 other forms of assistance) to study that research  
4 and to assess the impact of that research on the eco-  
5 nomic well-being, climate and environmental impact,  
6 public health, and national security of the United  
7 States;

8 (4) advise the President on the extent to which  
9 the various programs, policies, and activities of the  
10 Federal Government are likely to affect the achieve-  
11 ment of priority goals of the United States described  
12 in section 102(a);

13 (5) provide the President with—

14 (A) periodic reviews of Federal statutes  
15 and regulations that affect manufacturing and  
16 industrial innovation activities conducted by the  
17 Federal Government or the private sector, or  
18 which may interfere with desirable technological  
19 innovation; and

20 (B) recommendations for the elimination,  
21 reform, or updating of such Federal statutes  
22 and regulations, as appropriate;

23 (6) periodically survey the nature and needs of  
24 the policies relating to national manufacturing and  
25 industrial innovation and make recommendations to

1 the President, for review and submission to Con-  
2 gress, for the timely and appropriate revision of the  
3 manufacturing and industrial innovation policies of  
4 the Federal Government;

5 (7) perform such other duties and functions  
6 and make and furnish such studies and reports  
7 thereon, and recommendations with respect to mat-  
8 ters of policy and legislation as the President may  
9 request; and

10 (8) coordinate, as appropriate, Federal permit-  
11 ting with respect to manufacturing and industrial in-  
12 novation.

13 (b) INTERGOVERNMENTAL MANUFACTURING AND IN-  
14 DUSTRIAL INNOVATION PANEL.—

15 (1) ESTABLISHMENT.—The Chief Manufac-  
16 turing Officer shall establish an Intergovernmental  
17 Manufacturing and Industrial Innovation Panel (re-  
18 ferred to in this title as the “Panel”) within the Of-  
19 fice, the purpose of which shall be to—

20 (A) identify instances in which the policies  
21 of the Federal Government with respect to  
22 manufacturing and industrial innovation can  
23 help address problems at the State and local  
24 levels;

1 (B) identify instances in which the policies  
2 of the Federal Government unnecessarily im-  
3 pede manufacturing and industry;

4 (C) make recommendations for addressing  
5 the problems described in subparagraph (A);  
6 and

7 (D) advise and assist the Chief Manufac-  
8 turing Officer in identifying and fostering poli-  
9 cies to facilitate the application to and incorpo-  
10 ration of Federally funded research and devel-  
11 opment into manufacturing and industrial inno-  
12 vation in the United States, so as to maximize  
13 the application of such research.

14 (2) COMPOSITION.—The Panel shall be com-  
15 posed of—

16 (A) the Chief Manufacturing Officer, or a  
17 representative of the Chief Manufacturing Offi-  
18 cer;

19 (B) not fewer than 10 members rep-  
20 resenting the interests of the States, appointed  
21 by the Chief Manufacturing Officer after con-  
22 sultation with State officials;

23 (C) the Assistant Secretary of Commerce  
24 for Standards and Technology;

1 (D) the Director of the National Institute  
2 of Standards and Technology;

3 (E) the Deputy Assistant Secretary of De-  
4 fense for Manufacturing and Industrial Base  
5 Policy;

6 (F) the Assistant Secretary of Labor for  
7 Employment and Training;

8 (G) the Administrator of the Small Busi-  
9 ness Administration; and

10 (H) the Assistant Secretary of Energy for  
11 Energy Efficiency and Renewable Energy.

12 (3) CHAIR.—The Chief Manufacturing Officer,  
13 or the representative of the Chief Manufacturing Of-  
14 ficer, shall serve as Chair of the Panel.

15 (4) MEETINGS.—The Panel shall meet at the  
16 call of the Chair.

17 (5) COMPENSATION.—

18 (A) IN GENERAL.—Each member of the  
19 Panel shall be entitled to receive compensation  
20 at a rate not to exceed the daily rate prescribed  
21 for GS–15 of the General Schedule under sec-  
22 tion 5332 of title 5, United States Code, for  
23 each day (including travel time) during which  
24 the member is engaged in the performance of  
25 the duties of the Panel.



1 (B) TRAVEL EXPENSES.—Each member of  
2 the Panel who is serving away from the home  
3 or regular place of business of the member in  
4 the performance of the duties of the Panel shall  
5 be allowed travel expenses, including per diem  
6 in lieu of subsistence, in the same manner as  
7 the expenses authorized by section 5703(b) of  
8 title 5, United States Code, for persons in gov-  
9 ernment service employed intermittently.

10 **SEC. 204. NATIONAL STRATEGIC PLAN FOR MANUFAC-**  
11 **TURING AND INDUSTRIAL INNOVATION.**

12 (a) STRATEGIC PLAN.—

13 (1) IN GENERAL.—Not later than 1 year after  
14 the date of enactment of this Act, the Chief Manu-  
15 facturing Officer shall, to the extent practicable, in  
16 accordance with section 202(a)(2)(B) and in con-  
17 sultation with other agencies and private individuals  
18 as the Chief Manufacturing Officer determines nec-  
19 essary, establish a national strategic plan for manu-  
20 facturing and industrial innovation that identifies—

21 (A) short-term, medium-term, and long-  
22 term needs critical to the economy, national se-  
23 curity, public health, workforce readiness, envi-  
24 ronmental concerns, and priorities of the

1 United States manufacturing sector, including  
2 emergency readiness and resilience; and

3 (B) situations and conditions that warrant  
4 special attention by the Federal Government re-  
5 lating to—

6 (i) any problems, constraints, or op-  
7 portunities of manufacturing and indus-  
8 trial innovation that—

9 (I) are of national significance;

10 (II) will occur or may emerge in  
11 the 4-year period following the estab-  
12 lishment of the national strategic  
13 plan; and

14 (III) are identified through basic  
15 research;

16 (ii) an evaluation of activities and ac-  
17 complishments of all agencies in the execu-  
18 tive branch of the Federal Government  
19 that are related to carrying out such plan;

20 (iii) opportunities for, and constraints  
21 on, manufacturing and industrial innova-  
22 tion that can make a significant contribu-  
23 tion to—

24 (I) the resolution of problems  
25 identified under this paragraph; or

1 (II) the achievement of Federal  
2 program objectives or priority goals,  
3 including those described in section  
4 102(a); and

5 (iv) recommendations for legislation,  
6 regulation, and budget proposals to carry  
7 out such plan.

8 (2) REVISIONS.—Not later than 4 years after  
9 the establishment of the national strategic plan  
10 under paragraph (1), and every 4 years thereafter,  
11 the Chief Manufacturing Officer shall revise that  
12 plan so that the plan takes account of near- and  
13 long-term problems, constraints, and opportunities  
14 and changing national goals and circumstances.

15 (b) CONSULTATION WITH OTHER AGENCIES.—The  
16 Chief Manufacturing Officer shall consult, as necessary,  
17 with officials of agencies in the executive branch of the  
18 Federal Government that administer programs or have re-  
19 sponsibilities relating to the problems, constraints, and op-  
20 portunities identified in the national strategic plan under  
21 subsection (a) in order to—

22 (1) identify and evaluate actions that might be  
23 taken by the Federal Government, State, and local  
24 governments, or the private sector to deal with such  
25 problems, constraints, or opportunities; and

1           (2) ensure to the extent possible that actions  
2           identified under paragraph (1) are considered by  
3           each agency of the executive branch of the Federal  
4           Government in formulating the budget, programs,  
5           and legislative proposals of each such agency.

6           (c) CONSULTATION WITH MANUFACTURING STAKE-  
7           HOLDERS.—The Chief Manufacturing Officer shall con-  
8           sult broadly with representatives from stakeholder con-  
9           stituencies, including from technology fields, engineering  
10          fields, manufacturing fields, academic fields, worker train-  
11          ing or credentialing programs, industrial sectors, business  
12          sectors, consumer sectors, defense sector, public interest  
13          sectors, and labor organizations which primarily represent  
14          workers in manufacturing to ensure information and per-  
15          spectives from such consultations are incorporated within  
16          the problems, constraints, opportunities, and actions iden-  
17          tified in the national strategic plan under subsection (a).

18          (d) CONSULTATION WITH OMB.—The Chief Manu-  
19          facturing Officer shall consult as necessary with officials  
20          of the Office of Management and Budget and other appro-  
21          priate elements of the Executive Office of the President  
22          to ensure that the problems, constraints, opportunities,  
23          and actions identified under subsection (a) are fully con-  
24          sidered in the development of legislative proposals and the  
25          President’s budget.

1 **SEC. 205. ADDITIONAL FUNCTIONS OF THE CHIEF MANU-**  
2 **FACTURING OFFICER; ADMINISTRATIVE PRO-**  
3 **VISIONS.**

4 (a) IN GENERAL.—The Chief Manufacturing Officer,  
5 in addition to the other duties and functions under this  
6 title, shall serve—

7 (1) on the Federal Strategy and Coordinating  
8 Council on Manufacturing and Industrial Innovation  
9 established under title IV; and

10 (2) as a member of the Domestic Policy Coun-  
11 cil, the National Economic Council, and the Office  
12 of Science and Technology Policy Council.

13 (b) ADVICE TO NATIONAL SECURITY COUNCIL.—For  
14 the purpose of ensuring the optimal contribution of manu-  
15 facturing and industrial innovation to the national secu-  
16 rity of the United States, the Chief Manufacturing Officer,  
17 at the request of the President, shall advise the National  
18 Security Council in such matters concerning manufac-  
19 turing and industrial innovation as may be related to na-  
20 tional security.

21 (c) COORDINATION WITH OTHER ORGANIZATIONS.—

22 (1) IN GENERAL.—In exercising the functions  
23 under this Act, the Chief Manufacturing Officer—

24 (A) shall—

25 (i) work in close consultation and co-  
26 operation with the Director of the Domes-

1           tie Policy Council, the National Security  
2           Advisor, the Assistant to the President for  
3           Economic Policy and Director of the Na-  
4           tional Economic Council, the Director of  
5           the Office of Science and Technology Pol-  
6           icy, the Director of the Office of Manage-  
7           ment and Budget, and the heads of other  
8           agencies in the executive branch of the  
9           Federal Government;

10           (ii) utilize the services of consultants,  
11           establish such advisory panels, and, to the  
12           extent practicable, consult with—

13                   (I) State and local government  
14                   agencies;

15                   (II) appropriate professional  
16                   groups;

17                   (III) representatives of industry,  
18                   universities, consumers, labor organi-  
19                   zations that primarily represent work-  
20                   ers in manufacturing; and

21                   (IV) such other public interest  
22                   groups, organizations, and individuals  
23                   as may be necessary;

24           (iii) hold such hearings in various  
25           parts of the United States as necessary to

1 determine the views of the agencies,  
2 groups, and organizations described in  
3 paragraph (2), and of the general public,  
4 concerning national needs and trends in  
5 manufacturing and industrial innovation;  
6 and

7 (iv) utilize, with the heads of public  
8 and private agencies and organizes, to the  
9 fullest extent possible the services, per-  
10 sonnel, equipment, facilities, and informa-  
11 tion (including statistical information) of  
12 public and private agencies and organiza-  
13 tions, and individuals, in order to avoid the  
14 duplication of efforts and expenses; and

15 (B) may transfer funds made available  
16 pursuant to this Act to other agencies in the ex-  
17 ecutive branch of the Federal Government as  
18 reimbursement for the utilization of such per-  
19 sonnel, services, facilities, equipment, and infor-  
20 mation.

21 (2) FURNISHMENT OF INFORMATION.—Each  
22 department, agency, and instrumentality of the exec-  
23 utive branch of the Federal Government, including  
24 any independent agency, shall furnish the Chief

1 Manufacturing Officer such information as nec-  
2 essary to carry out this title.

3 **SEC. 206. MANUFACTURING AND INDUSTRIAL INNOVATION**  
4 **REPORT.**

5 (a) REPORT.—Not later than 3 years after the date  
6 of the enactment of this Act, and every 4 years thereafter,  
7 the President shall submit to Congress a Manufacturing  
8 and Industrial Innovation Report (referred to in this Act  
9 as the “report”), which shall be prepared by the Chief  
10 Manufacturing Officer, with appropriate assistance from  
11 agencies in the executive branch of the Federal Govern-  
12 ment and such consultants and contractors as the Chief  
13 Manufacturing Officer determines necessary.

14 (b) CONTENTS OF REPORT.—Each report required  
15 under subsection (a) shall draw upon the most recent na-  
16 tional strategic plan established under section 204 and  
17 shall include, to the extent practicable and within the limi-  
18 tations of available knowledge and resources—

19 (1) a review of developments of national signifi-  
20 cance in manufacturing and industrial innovation;

21 (2) the significant effects of trends at the time  
22 of the submission of the report and projected trends  
23 in manufacturing and industrial innovation on the  
24 economy, workforce, and environmental, health and



1 national security, and other requirements of the  
2 United States;

3 (3) a review and appraisal of selected manufac-  
4 turing and industrial innovation related programs,  
5 policies, and activities of the Federal Government,  
6 including procurement;

7 (4) an inventory and forecast of critical and  
8 emerging national problems, the resolution of which  
9 might be substantially assisted by manufacturing  
10 and industrial innovation in the United States;

11 (5) the identification and assessment of manu-  
12 facturing and industrial innovation measures that  
13 can contribute to the resolution of the problems de-  
14 scribed in paragraph (4) in light of the related eco-  
15 nomic, workforce, environmental, public health, and  
16 national security considerations;

17 (6) at the time of the submission of the report,  
18 and as projected, the manufacturing and industrial  
19 resources, including specialized manpower, that  
20 could contribute to the resolution of the problems  
21 described in paragraph (4); and

22 (7) recommendations for legislation and regu-  
23 latory changes on manufacturing and industrial in-  
24 novation-related programs and policies that will con-

1       tribute to the resolution of the problems described in  
2       paragraph (4).

3       (c) PREPARATION OF REPORT.—In preparing each  
4 report required under subsection (a), the Chief Manufac-  
5 turing Officer shall make maximum use of relevant data  
6 available from agencies in the executive branch of the Fed-  
7 eral Government.

8       (d) PUBLIC AVAILABILITY OF REPORT.—The Chief  
9 Manufacturing Officer shall ensure that the report is  
10 made available to the public.

11 **SEC. 207. COMPTROLLER GENERAL REPORT.**

12       Not later than 3 years after the date of enactment  
13 of this Act, the Comptroller General of the United States  
14 shall submit to the Committee on Commerce, Science, and  
15 Transportation of the Senate, the Committee on Appro-  
16 priations of the Senate, the Committee on Science, Space,  
17 and Technology of the House of Representatives, the Com-  
18 mittee on Energy and Commerce of the House of Rep-  
19 resentatives, and the Committee on Appropriations of the  
20 House of Representatives, and make available to the pub-  
21 lic, a report—

22           (1) containing an assessment of the efforts of  
23       the Office to implement or advance the priority goals  
24       described in section 102(a); and

1           (2) providing recommendations on how to im-  
2           prove the efforts described in paragraph (1).

3 **TITLE III—PRESIDENT’S ADVI-**  
4 **SORY COMMITTEE ON MANU-**  
5 **FACTURING AND INDUSTRIAL**  
6 **INNOVATION**

7 **SEC. 301. ESTABLISHMENT.**

8           The President shall establish within the Executive  
9 Office of the President the President’s Advisory Com-  
10 mittee on Manufacturing and Industrial Innovation (re-  
11 ferred to in this title as the “Committee”), which shall—

12           (1) promote regular communication between the  
13 Federal Government and the manufacturing sector  
14 in the United States, including significant commu-  
15 nication with representatives of manufacturers with  
16 fewer than 800 employees;

17           (2) advise the Chief Manufacturing Officer on  
18 policies and programs of the Federal, State, and  
19 local governments that affect manufacturing in the  
20 United States;

21           (3) provide a forum for discussing and pro-  
22 posing solutions to industry-related problems; and

23           (4) promote efforts to ensure that the United  
24 States remains the preeminent destination for in-  
25 vestment in manufacturing throughout the world.

1 **SEC. 302. MEMBERSHIP.**

2 (a) COMPOSITION.—The Committee shall consist  
3 of—

4 (1) the Chief Manufacturing Officer; and

5 (2) not fewer than 8 and not more than 14  
6 other members, who shall be appointed by the Presi-  
7 dent not more than 60 days after the date on which  
8 the Chief Manufacturing Officer assumes office.

9 (b) QUALIFICATIONS.—Members of the Committee  
10 appointed by the President under subsection (a)(2) shall—

11 (1) be capable of critically assessing the poli-  
12 cies, priorities, programs, and activities of the  
13 United States, with respect to the findings and poli-  
14 cies described in title I;

15 (2) collectively constitute a balanced composi-  
16 tion with respect to—

17 (A) technology, engineering, manufacturing  
18 fields;

19 (B) academic, industrial, and governmental  
20 experience,

21 (C) the business sector, the consumer sec-  
22 tor, the defense sector, the public interest sec-  
23 tor, and labor organizations that primarily rep-  
24 resent workers in manufacturing; and

25 (D) regional diversity; and

1           (3) each be qualified and distinguished in not  
2           less than 1 of—

3                   (A) engineering;

4                   (B) technology;

5                   (C) entrepreneurship;

6                   (D) manufacturing;

7                   (E) trade;

8                   (F) information dissemination;

9                   (G) education;

10                  (H) worker training or credentialing;

11                  (I) labor organizations that primarily rep-  
12                  resent workers in manufacturing;

13                  (J) public affairs; and

14                  (K) public policy.

15           (c) CHAIR.—The President shall appoint 1 member  
16 of the Committee to serve as Chair and another member  
17 to serve as Vice Chair, for such periods as the President  
18 may determine appropriate.

19           (d) COMPENSATION.—

20                   (1) IN GENERAL.—Each member of the Com-  
21                   mittee who is not an employee of the Federal Gov-  
22                   ernment shall be entitled to receive compensation at  
23                   a rate not to exceed the daily rate prescribed for  
24                   GS–15 of the General Schedule under section 5332  
25                   of title 5, United States Code, for each day (includ-

1       ing travel time) during which the member is engaged  
2       in the performance of the duties of the Committee.

3               (2) TRAVEL EXPENSES.—Each member of the  
4       Committee who is serving away from the home or  
5       regular place of business of the member in the per-  
6       formance of the duties of the Committee may be al-  
7       lowed travel expenses, including per diem in lieu of  
8       subsistence, in the same manner as the expenses au-  
9       thorized by section 5703(b) of title 5, United States  
10      Code, for persons in government service employed  
11      intermittently.

12 **SEC. 303. FEDERAL MANUFACTURING AND INDUSTRIAL IN-**  
13 **NOVATION SURVEY.**

14       (a) DUTIES OF THE COMMITTEE.—

15               (1) IN GENERAL.—The Committee shall—

16                       (A) survey, examine, and analyze the over-  
17                       all context of the manufacturing and industrial  
18                       innovation efforts of the Federal Government,  
19                       including the mission, goals, personnel, funding,  
20                       organization, facilities, and activities of those  
21                       efforts; and

22                       (B) in carrying out subparagraph (A), take  
23                       adequate account of the interests of individuals  
24                       and groups that may be affected by Federal  
25                       manufacturing and industrial innovation pro-

1           grams, including, as appropriate, by consulting  
2           with those individuals and groups.

3           (2) CONSIDERATIONS.—In carrying out the  
4           functions of the Committee under this section, the  
5           Committee shall consider the need for—

6                   (A) organizational reform, including insti-  
7                   tutional realignment or establishment designed  
8                   to place within a single cabinet-level department  
9                   (either within an existing agency or a new cabi-  
10                  net-level department) with missions that are  
11                  primarily or solely devoted to manufacturing  
12                  and industrial innovation;

13                  (B) improvements in existing programs  
14                  and policies of manufacturing and industrial in-  
15                  novation of the Federal Government, including  
16                  consideration of the appropriate role to be  
17                  played by the private sector;

18                  (C) improved manufacturing and industrial  
19                  innovation assessment in the executive branch  
20                  of the Federal Government;

21                  (D) improved methods for effecting devel-  
22                  opment of manufacturing capabilities, especially  
23                  capabilities arising from Federally funded re-  
24                  search;

1           (E) stimulating more effective Federal-  
2 State and Federal-industry liaison and coopera-  
3 tion in manufacturing and industrial innovation  
4 policy, including the formation of Federal-State  
5 mechanisms for the mutual pursuit of the  
6 shared goal of growing and improving manufac-  
7 turing;

8           (F) reforming any Federal regulation or  
9 administrative practice or procedure that may  
10 have the effect of slowing technological innova-  
11 tion or opportunities for the use of technological  
12 innovation;

13           (G) improvements to Federal research and  
14 development activities to make those activities  
15 more responsive to industrial needs;

16           (H) ways of strengthening the competency  
17 of academic institutions in the United States  
18 for education and workforce training to better  
19 foster manufacturing and industrial innovation,  
20 capacity, and diversity;

21           (I) ways of effectively integrating manufac-  
22 turing and industrial innovation into the na-  
23 tional and international policies of the United  
24 States;



1           (J) manufacturing and industrial innova-  
2           tion designed to meet community and individual  
3           needs;

4           (K) maintaining the quality and quantity  
5           of adequate manufacturing and industrial inno-  
6           vation manpower;

7           (L) improved systems for planning and  
8           analyzing Federal manufacturing and industrial  
9           innovation programs;

10          (M) long-range study, analysis, and plan-  
11          ning with respect to the application of manufac-  
12          turing and industrial innovation to major na-  
13          tional problems or concerns; and

14          (N) identifying unnecessary or duplicative  
15          regulations.

16       (b) REPORT.—

17           (1) TO THE PRESIDENT.—

18           (A) INTERIM REPORT.—Not later than 1  
19           year after the date on which every member of  
20           the Committee has been appointed under sec-  
21           tion 302(a), the Committee shall submit to the  
22           President an interim report on the activities  
23           and operations of the Committee, as of the date  
24           on which the interim report is submitted.

1 (B) FINAL REPORT.—Not later than 2  
2 years after the date on which every member of  
3 the Committee has been appointed under sec-  
4 tion 302(a), the Committee shall submit to the  
5 President a final report on the activities, find-  
6 ings, conclusions, and recommendations of the  
7 Committee, including any necessary supporting  
8 data and material.

9 (2) TO CONGRESS.—Not later than 60 days  
10 after the date on which the President receives the  
11 final report required under paragraph (1)(B), the  
12 President shall submit to Congress—

13 (A) the interim report submitted under  
14 paragraph (1)(A);

15 (B) the final report submitted under para-  
16 graph (1)(B); and

17 (C) any comments on, observations of, and  
18 recommendations with respect to the reports de-  
19 scribed in this paragraph that the President de-  
20 termines appropriate.

21 **SEC. 304. CONTINUATION OF COMMITTEE.**

22 (a) TERMINATION.—Notwithstanding section 14 of  
23 the Federal Advisory Committee Act (5 U.S.C. App.), the  
24 Committee shall terminate not later than 90 days after  
25 the date on which the President submits the reports under

1 section 303(b)(2), unless the President, before the expira-  
2 tion of the 90-day period, makes a determination that it  
3 is advantageous for the Committee to continue in being.

4 (b) CONTINUATION OF COMMITTEE.—If the Presi-  
5 dent determines that it is advantageous for the Committee  
6 to continue in being under subsection (a)—

7 (1) the Committee shall exercise functions pre-  
8 scribed by the President; and

9 (2) the members of the Committee shall serve  
10 at the pleasure of the President.

11 **SEC. 305. STAFF AND CONSULTANT SUPPORT.**

12 (a) FUNCTIONS.—In the performance of the duties  
13 described in section 303(a), the Committee may—

14 (1) select, appoint, employ, and fix the com-  
15 pensation of specialists and other experts necessary  
16 to carry out those duties;

17 (2) select, appoint, and employ, subject to the  
18 civil service laws, officers and employees necessary to  
19 carry out those duties; and

20 (3) provide for the participation of civilian and  
21 military personnel detailed to the Committee pursu-  
22 ant to subsection (b) of this section to carry out the  
23 duties of the Committee.

1 (b) SUPPORT.—Upon request of the Committee, the  
2 head of any agency, department, or instrumentality in the  
3 executive branch of the Federal Government may—

4 (1) furnish to the Committee necessary infor-  
5 mation to carry out the functions of the Committee  
6 that is available to, or procurable by, such depart-  
7 ment, agency, or instrumentality; and

8 (2) detail to temporary duty with the Com-  
9 mittee on a reimbursable basis personnel within the  
10 administrative jurisdiction of the head of the agency,  
11 department, or instrumentality that the Committee  
12 needs or believes to be useful to carry out the duties  
13 of the Committee.

14 (c) COMMITTEE DETAIL.—

15 (1) CIVILIAN EMPLOYEE.—An individual who is  
16 detailed to temporary duty to the Committee under  
17 subsection (b)(2) may not experience as a result of  
18 being assigned to the detail—

19 (A) with respect to an individual who is a  
20 civilian employee, a loss of seniority, pay, or  
21 other employee status; and

22 (B) with respect to an individual who is a  
23 member of the military, a loss of—

24 (i) status, rank, officer, or grade; or

1 (ii) any emolument, perquisite, right,  
2 privilege, or benefit incident to military  
3 personnel that is detailed and made pursu-  
4 ant to an agreement between the Chair  
5 and the head of the relevant department,  
6 agency, or instrumentality, in accordance  
7 with the provisions of subchapter III of  
8 chapter 33, title 5, United States Code.

9 **TITLE IV— FEDERAL STRATEGY**  
10 **AND COORDINATING COUN-**  
11 **CIL ON MANUFACTURING**  
12 **AND INDUSTRIAL INNOVA-**  
13 **TION**

14 **SEC. 401. ESTABLISHMENT.**

15 There is established in the executive branch of the  
16 Federal Government the Federal Strategy and Coordi-  
17 nating Council on Manufacturing and Industrial Innova-  
18 tion (referred to in this title as the “Council”).

19 **SEC. 402. MEMBERSHIP.**

20 (a) COMPOSITION.—

21 (1) IN GENERAL.—The Council shall be com-  
22 posed of the following:

23 (A) The President, who shall serve as  
24 Chair of the Council.

25 (B) The Vice President.

- 1 (C) The Secretary of Commerce.
- 2 (D) The Secretary of Defense.
- 3 (E) The Secretary of Education.
- 4 (F) The Secretary of Energy.
- 5 (G) The Secretary of Health and Human  
6 Services.
- 7 (H) The Secretary of Housing and Urban  
8 Development.
- 9 (I) The Secretary of Labor.
- 10 (J) The Secretary of State.
- 11 (K) The Secretary of Transportation.
- 12 (L) The Secretary of Treasury.
- 13 (M) The Secretary of Veterans Affairs.
- 14 (N) The Administrator of the Environ-  
15 mental Protection Agency.
- 16 (O) The Administrator of the National  
17 Aeronautics and Space Administration.
- 18 (P) The Administrator of the Small Busi-  
19 ness Administration.
- 20 (Q) The Director of the National Science  
21 Foundation.
- 22 (R) The Director of the Office of Manage-  
23 ment and Budget.
- 24 (S) The Assistant to the President for  
25 Science and Technology.

1           (T) The United States Trade Representa-  
2           tive.

3           (U) The National Security Advisor.

4           (V) The Assistant to the President for  
5           Economic Policy.

6           (W) The Director of the Domestic Policy  
7           Council.

8           (X) The Chair of the Council of Economic  
9           Advisers.

10          (Y) The Chief Manufacturing Officer.

11          (2) ADDITIONAL PARTICIPANTS.—The Presi-  
12          dent may, from time to time and as necessary, ap-  
13          point officials in the executive branch of the Federal  
14          Government to serve as members of the Council.

15          (b) MEETINGS OF THE COUNCIL.—

16           (1) IN GENERAL.—The President or the Chief  
17          Manufacturing Officer may convene meetings of the  
18          Council.

19           (2) PRESIDING OFFICER.—

20           (A) IN GENERAL.—Subject to subpara-  
21          graph (B), the President shall preside over the  
22          meetings of the Council.

23           (B) EXCEPTION.—If the President is not  
24          present at a meeting of the Council, the Vice  
25          President (and if the Vice President is not

1 present at a meeting of the Council, the Chief  
2 Manufacturing Officer) shall preside and be  
3 considered the chair of the Council.

4 **SEC. 403. COUNCIL ON MANUFACTURING AND INDUSTRIAL**  
5 **INNOVATION EFFORTS.**

6 (a) DUTIES OF THE COUNCIL.—

7 (1) FUNCTIONS.—The Council shall—

8 (A) consider problems and developments,  
9 including concerns regarding the workforce con-  
10 cerns, in manufacturing and industrial innova-  
11 tion and related activities of more than 1 agen-  
12 cy in the executive branch of the Federal Gov-  
13 ernment;

14 (B) coordinate the manufacturing and in-  
15 dustrial innovation policy-making process;

16 (C) harmonize the Federal permitting  
17 process related to manufacturing and industrial  
18 innovation, as appropriate;

19 (D) ensure manufacturing and industrial  
20 innovation policy decisions and programs are  
21 consistent with the priority goals of the United  
22 States described in section 102(a);

23 (E) help implement the priority goals de-  
24 scribed in section 102(a) across the Federal  
25 Government;



1           (F) ensure manufacturing and industrial  
2 innovation are considered in the development  
3 and implementation of Federal policies and pro-  
4 grams;

5           (G) achieve more effective use of  
6 foundational aspects of manufacturing and in-  
7 dustrial innovation, particularly scientific, engi-  
8 neering, and technological resources and facili-  
9 ties of agencies in the executive branch of the  
10 Federal Government, including the elimination  
11 of efforts that have been unwarrantedly dupli-  
12 cated;

13           (H) identify—

14                 (i) threats to and vulnerabilities of  
15 supply chains;

16                 (ii) workforce skills; and

17                 (iii) aspects of supply chains and  
18 workforce skills requiring additional em-  
19 phasis; and

20           (I) further international cooperation on  
21 manufacturing and industrial innovation poli-  
22 cies that enhance the policies of the United  
23 States and internationally agreed upon policies.

24           (2) OTHER DUTIES.—The Chief Manufacturing  
25 Officer may take such actions as may be necessary

1 or appropriate to implement the functions described  
2 in paragraph (1).

3 **SEC. 404. COORDINATION.**

4 (a) **REQUIREMENT TO COORDINATE.**—The head of  
5 each agency in the executive branch of the Federal Gov-  
6 ernment, without regard to whether the head of the agency  
7 is a member of the Council, shall—

8 (1) coordinate manufacturing and industrial in-  
9 novation policy with the Council; and

10 (2) share information on manufacturing and in-  
11 dustrial innovation policy-related budget requests  
12 with the Council.

13 (b) **BUDGET RECOMMENDATIONS.**—The Council  
14 shall develop for submission to the Director of the Office  
15 of Management and Budget recommendations for the  
16 budgets of agencies in the executive branch of the Federal  
17 Government relating to manufacturing and industrial in-  
18 novation policy that reflect the priority goals described in  
19 section 102(a).

20 (c) **RECOMMENDATIONS.**—The Council shall provide  
21 advice to the Director of the Office of Management and  
22 Budget concerning the budget proposals of agencies in the  
23 executive branch of the Federal Government concerning  
24 manufacturing and industrial innovation policy.

1 **SEC. 405. ADMINISTRATION.**

2 (a) COORDINATION WITH NATIONAL SCIENCE AND  
3 TECHNOLOGY COUNCIL.—In carrying out the duties of  
4 the Council, the Council shall consult with the National  
5 Science and Technology Council, as necessary.

6 (b) AD COMMITTEES; TASKS FORCES, INTERAGENCY  
7 GROUPS.—The Council may function through established  
8 or ad hoc committees, task forces, or interagency groups.

9 (c) REQUIREMENT TO COOPERATE.—Each agency in  
10 the executive branch of the Federal Government shall—

11 (1) cooperate with the Council; and

12 (2) provide assistance, information, and advice  
13 to the Council, as the Council may request, to the  
14 extent permitted by law.

15 (d) ASSISTANCE TO COUNCIL.—For the purpose of  
16 carrying out the provisions of this section, the head of  
17 each agency that is a member of the Council shall furnish  
18 necessary assistance and resources to the Council, which  
19 may include—

20 (1) detailing employees of the agency to the  
21 Council to perform such functions, consistent with  
22 the purposes of this section, as the Chair may assign  
23 to those detailees;

24 (2) providing office support and printing, as re-  
25 quested by the Chair; and

1           (3) upon the request of the Chair, undertake  
2           special studies for the Council that come within the  
3           functions herein assigned as necessary to fulfill the  
4           duties of the Council described in section 403.

5 **TITLE V—MANUFACTURING AND**  
6 **INDUSTRIAL INNOVATION**  
7 **POLICY INSTITUTE**

8 **SEC. 501. ESTABLISHMENT.**

9           There shall be established a Federally funded re-  
10 search and development center to be known as the “Manu-  
11 facturing and Industrial Innovation Policy Institute” (re-  
12 ferred to in this section as the “Institute”).

13 **SEC. 502. INCORPORATION.**

14           The Institute shall be—

15           (1) administered as a separate entity by an or-  
16 ganization managing a Federally funded research  
17 and development center on the date of enactment of  
18 this Act; or

19           (2) incorporated as a nonprofit membership  
20 corporation.

21 **SEC. 503. DUTIES.**

22           The duties of the Institute shall include the following:

23           (1) The assembly of timely and authoritative in-  
24 formation relating to significant manufacturing and  
25 industrial innovation development and trends in re-

1 search, development, and their applications in the  
2 United States and abroad, including information re-  
3 lating to—

4 (A) the developments identified in the most  
5 recent report submitted to Congress by the  
6 President under section 206; and

7 (B) projections and strategies identified in  
8 the most recent national strategic plan estab-  
9 lished under section 204(a).

10 (2) The development and maintenance of rel-  
11 evant informational and analytical tools.

12 (3) The analysis and interpretation of the infor-  
13 mation described in paragraph (1), with particular  
14 attention to the scope and content of the Federal  
15 manufacturing and industrial innovation policy port-  
16 folio that affects interagency and national issues.

17 (4) The initiation of studies and analysis of  
18 available manufacturing and industrial innovation  
19 alternatives to ensure the long-term strength of the  
20 United States in the development and application of  
21 manufacturing and industrial innovation.

22 (5) The determination of appropriate roles of  
23 the Federal Government, State governments, private  
24 industry, and institutes of higher education in the

1 development and application of manufacturing and  
2 industrial innovation.

3 (6) The provision, upon the request of the Chief  
4 Manufacturing Officer, of technical support and as-  
5 sistance—

6 (A) to the committees and panels of the  
7 Federal Strategy and Coordinating Council on  
8 Manufacturing and Industrial Innovation estab-  
9 lished under section 401 that provide advice to  
10 agencies in the executive branch of the Federal  
11 Government on manufacturing and industrial  
12 innovation; and

13 (B) to the interagency committees and  
14 panels of the Federal Government concerned  
15 with manufacturing and industrial innovation.

16 **SEC. 504. CONSULTATION OF INSTITUTE ACTIVITIES.**

17 In carrying out the duties described in section 503,  
18 personnel of the Institute shall—

19 (1) consult widely with representatives from—

20 (A) private industry;

21 (B) labor organizations that primarily rep-  
22 resent workers in manufacturing;

23 (C) institutions of higher education, in-  
24 cluding worker training and credentialing pro-  
25 grams; and

1 (D) nonprofit institutions that reflect ra-  
2 cial, ethnic, gender, and regional diversity; and  
3 (2) to the maximum extent practicable, incor-  
4 porate information and perspectives derived from  
5 consultations under paragraph (1).

6 **SEC. 505. ANNUAL REPORTS.**

7 (a) IN GENERAL.—Not later than 18 months after  
8 the date of enactment of this Act, and annually thereafter,  
9 the Institute shall submit to the President a report on the  
10 activities of the Institute.

11 (b) REQUIREMENTS.—The President shall prescribe  
12 requirements for the report submitted under subsection  
13 (a).

14 **SEC. 506. SPONSORSHIP.**

15 (a) SPONSOR.—The Director of the National Insti-  
16 tute of Standards and Technology shall be the sponsor of  
17 the Institute.

18 (b) AGREEMENT.—

19 (1) IN GENERAL.—The Director of the National  
20 Institute of Standards and Technology, in consulta-  
21 tion with the Chief Manufacturing Officer, shall  
22 enter into a sponsoring agreement with respect to  
23 the Institute that requires the Institute carry out  
24 functions determined by the Chief Manufacturing

1       Officer that are consistent with the duties described  
2       to in section 503.

3               (2) CONSISTENCY WITH REQUIREMENTS PRE-  
4       SCRIBED BY ADMINISTRATOR FOR FEDERAL PRO-  
5       CUREMENT POLICY.—The Administrator for Federal  
6       Procurement Policy shall prescribe general require-  
7       ments for the sponsoring agreement entered into  
8       under paragraph (1).

9       **TITLE VI—NATIONAL MEDAL OF**  
10       **MANUFACTURING AND IN-**  
11       **DUSTRIAL INNOVATION**

12       **SEC. 601. AWARD.**

13       (a) RECOMMENDATIONS.—The President shall from  
14       time to time award a medal, to be known as the “National  
15       Medal of Manufacturing and Industrial Innovation”, on  
16       the basis of recommendations received from the National  
17       Academies of Sciences, the Chief Manufacturing Officer,  
18       or on the basis of such other information and evidence  
19       as the President determines appropriate, to individuals  
20       who in the judgment of the President are deserving of spe-  
21       cial recognition by reason of outstanding contributions to  
22       knowledge in manufacturing and industrial innovation.

23       (b) NUMBER.—Not more than 20 individuals may be  
24       awarded a medal under this section in any one calendar  
25       year.



1 (c) CITIZENSHIP.—An individual may not be awarded  
2 a medal under this section unless at the time such award  
3 is made the individual—

4 (1) is a citizen or other national of the United  
5 States; or

6 (2) is an individual lawfully admitted to the  
7 United States for permanent residence who—

8 (A) has filed an application for petition for  
9 naturalization in the manner prescribed by sec-  
10 tion 334(b) of the Immigration and Nationality  
11 Act (8 U.S.C. 1445(b)); and

12 (B) is not permanently ineligible to become  
13 a citizen of the United States.

14 (d) CEREMONIES.—The presentation of the award  
15 shall be made by the President with such ceremonies as  
16 determined proper, including attendance by appropriate  
17 Members of Congress.

18 **TITLE VII—GENERAL**  
19 **PROVISIONS**

20 **SEC. 701. AUTHORIZATION OF APPROPRIATIONS.**

21 There are authorized to be appropriated—

22 (1) for fiscal year 2022—

23 (A) \$5,000,000, for the purpose of car-  
24 rying out title II;

1           (B) \$5,000,000, for the purpose of car-  
2           rying out title III;

3           (C) \$5,000,000, for the purpose of car-  
4           rying out title IV; and

5           (D) \$5,000,000, for the purpose of car-  
6           rying out title V; and

7           (2) for each fiscal year thereafter, for the pur-  
8           pose of carrying out titles II through V, such sums  
9           as may be necessary.

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