

117TH CONGRESS  
1ST SESSION

# H. R. 1591

To establish the United States Chief Manufacturing Officer in the Executive Office of the President with the responsibility of developing a National Manufacturing Strategy to revitalize the manufacturing sector, spur economic growth, and expand United States competitiveness, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

MARCH 3, 2021

Mr. RYAN (for himself and Mr. REED) introduced the following bill; which was referred to the Committee on Energy and Commerce

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## A BILL

To establish the United States Chief Manufacturing Officer in the Executive Office of the President with the responsibility of developing a National Manufacturing Strategy to revitalize the manufacturing sector, spur economic growth, and expand United States competitiveness, 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 “Chief Manufacturing  
5       Officer Act”.

1 **SEC. 2. FINDINGS; SENSE OF CONGRESS.**

2 (a) FINDINGS.—The Congress finds the following:

3 (1) The manufacturing sector consists of estab-  
4 lishments that are primarily engaged in the trans-  
5 formation of materials, substances, or components  
6 into products.

7 (2) A healthy, innovative manufacturing base  
8 plays a central role in the United States economy  
9 and national defense.

10 (3) The Federal Government supports manufac-  
11 turing in a variety of ways; support for manufac-  
12 turing-related activities are dispersed across several  
13 agencies in the executive branch.

14 (4) Manufacturing employment, output, and ex-  
15 ports are impacted by a myriad of factors including  
16 the state of infrastructure and transportation, tax  
17 policies, environmental and other business regula-  
18 tions, trade policies, innovation ecosystems, work-  
19 force development, and education initiatives. Legisla-  
20 tion and executive actions can have unintended im-  
21 pact on the growth of manufacturing in the United  
22 States.

23 (5) Manufacturers account for 11 percent of  
24 the total gross domestic product output in the  
25 United States, employing 8 percent of the workforce.  
26 Total output from manufacturing is more than 2

1 trillion dollars. There are nearly 13 million manufac-  
2 turing employees in the United States, with an aver-  
3 age annual compensation of about \$85,000.

4 (6) Given that 99 percent of manufacturing  
5 firms are small and medium size enterprises with a  
6 predominantly local employment footprint, workforce  
7 development programs must be rooted in local cir-  
8 cumstance and requirements.

9 (b) SENSE OF CONGRESS.—It is the sense of Con-  
10 gress that a well-designed National Manufacturing Strat-  
11 egy would benefit the United States economy in several  
12 important ways, including the following:

13 (1) A revitalized manufacturing sector would  
14 enable the United States to increase its economic  
15 growth from domestic and export production.

16 (2) Manufacturing jobs continue to pay higher  
17 wages and benefits than non-manufacturing jobs.  
18 Average domestic wages would rise in response to  
19 growing manufacturing output.

20 (3) Manufacturing industries undertake two-  
21 thirds of private-sector research and development,  
22 which fuels the innovation that serves as a primary  
23 engine of economic growth. A growing manufac-  
24 turing sector would help lay the foundations for fu-  
25 ture economic expansion.

1           (4) The United States would expand its long-  
2           standing leadership in advanced manufacturing tech-  
3           nologies with Federal investments in manufacturing  
4           research and development, education, and workforce  
5           training.

6           (5) There exists a longstanding connection be-  
7           tween domestic manufacturing, national defense, and  
8           homeland security. A strong and innovative manu-  
9           facturing industry will maintain the technical superi-  
10          ority of the United States military and secure supply  
11          chain integrity.

12 **SEC. 3. DEFINITIONS.**

13       In this Act:

14           (1) AGENCY.—The term “agency” has the  
15           meaning given that term in section 551 of title 5,  
16           United States Code.

17           (2) INSTITUTION OF HIGHER EDUCATION.—The  
18           term “institution of higher education” has the  
19           meaning given that term in section 101 of the High-  
20           er Education Act of 1965 (20 U.S.C. 1001).

21           (3) NATIONAL MANUFACTURING STRATEGY;  
22           STRATEGY.—The terms “National Manufacturing  
23           Strategy” and “Strategy” mean the National Manu-  
24           facturing Strategy described in subsection (d).

1           (4) SMALL BUSINESS.—The term “small busi-  
2           ness” means a company that has fewer than 500  
3           employees.

4           (5) NONPROFIT ORGANIZATION.—The term  
5           “nonprofit organization” means an organization that  
6           is described under section 501(c) of the Internal  
7           Revenue Code of 1986 and exempt from tax under  
8           section 501(a) of such Code.

9           (6) STATE.—The term “State” means each of  
10          the several States, the District of Columbia, each  
11          commonwealth, territory, or possession of the United  
12          States, and each federally recognized Indian Tribe.

13          (7) STATE EDUCATIONAL AGENCY.—The term  
14          “State educational agency” has the meaning given  
15          that term in section 8101 of the Elementary and  
16          Secondary Education Act (20 U.S.C. 7801).

17 **SEC. 4. UNITED STATES CHIEF MANUFACTURING OFFICER.**

18          (a) APPOINTMENT.—

19               (1) IN GENERAL.—Not later than 6 months  
20               after the date of the enactment of this Act, the  
21               President shall appoint a United States Chief Manu-  
22               facturing Officer (referred to in this section as the  
23               “Chief Manufacturing Officer”).

24               (2) QUALIFICATIONS.—The President shall se-  
25               lect the Chief Manufacturing Officer from among in-

1       dividuals who have basic qualifications and expertise  
2       in manufacturing technology and policy.

3               (3) REPORTING.—The position of Chief Manu-  
4       facturing Officer shall be in the Executive Office of  
5       the President and shall report to the President  
6       through the Chief of Staff.

7               (4) NATIONAL ECONOMIC COUNCIL.—The Chief  
8       Manufacturing Officer shall be a member of the Na-  
9       tional Economic Council.

10       (b) PAY.—The annual rate of pay for the Chief Man-  
11      ufacturing Officer shall be level II of the Executive Sched-  
12      ule rate of pay (subchapter II of chapter 53 of title 5,  
13      United States Code) commensurate with the qualifications  
14      and expertise of the individual appointed to be such Offi-  
15      cer.

16       (c) DUTIES.—The duties of the Chief Manufacturing  
17      Officer are as follows:

18               (1) To advise the President on policy issues  
19       that affect the workforce and economic activity of  
20       the manufacturing sector including science, tech-  
21       nology, trade, tariffs, currency, and procurement  
22       policies.

23               (2) To deliver the National Manufacturing  
24       Strategy.

1           (3) To convene interagency working groups to  
2       align Federal policies to drive implementation of the  
3       National Manufacturing Strategy, including collabo-  
4       ration among the Departments of Education, Labor,  
5       Energy, Commerce, and Defense, the Environmental  
6       Protection Agency, National Science Foundation,  
7       Small Business Administration, and other agencies.

8           (4) To evaluate the effectiveness of existing  
9       measures designed to improve innovation, produc-  
10      tivity, energy efficiency, economic growth, cybersecu-  
11      rity, and manufacturing industries' contribution to  
12      national security.

13          (5) To propose studies and policy experiments,  
14      in cooperation with agencies and the manufacturing  
15      industry, to determine effective measures to advance  
16      technological innovation and productivity in manu-  
17      facturing in the United States.

18          (6) To propose studies and policy experiments,  
19      in cooperation with agencies and the manufacturing  
20      industry, to determine effective measures to improve  
21      environmental sustainability within the manufac-  
22      turing industry.

23          (7) To connect manufacturing support pro-  
24      grams across the United States to make them more  
25      efficient, focused, and easier to use.

1           (8) To identify opportunities to improve the ef-  
2           ficiency of grant opportunities that affect the manu-  
3           facturing workforce.

4           (9) To assess Federal loan programs to ensure  
5           greater access to capital for small businesses that  
6           are manufacturers.

7           (10) To examine and improve tax incentives for  
8           manufacturing companies in relation to increasing  
9           support for investment in—

10                   (A) workforce training; and

11                   (B) productivity and systems improve-  
12           ments, including smart supply chain manage-  
13           ment technology and cybersecurity measures.

14           (11) To foster the use of best practices for  
15           manufacturing, information technology, and cyberse-  
16           curity by identifying and encouraging their use  
17           across all Federal Government programs and  
18           throughout the procurement process.

19           (12) To encourage the creation of joint initia-  
20           tives by State and local governments, regional orga-  
21           nizations, private companies, institutions of higher  
22           education, nonprofit organizations, and Federal lab-  
23           oratories to encourage technology transfer, to stimu-  
24           late innovation, and pursue targeted workforce de-



1        velopment to promote an environment ready for in-  
2        vestments in manufacturing-related industries.

3            (13) To participate in discussions among com-  
4        panies that manufacture in the United States on  
5        topics of interest to the manufacturing industry and  
6        workforce, including discussions regarding emerging  
7        and advanced technologies.

8            (14) To work with the manufacturing industry  
9        to identify needs, challenges, and opportunities  
10       across the manufacturing sector which, if addressed,  
11       could make a significant contribution to improving  
12       the ability of manufacturers in the United States to  
13       compete successfully in international markets.

14           (15) To carry out ongoing competitive analysis  
15       of the manufacturing policies of the governments of  
16       other countries, alongside their industrial structures  
17       and labor conditions, to help identify factors that  
18       successfully support the development of strong man-  
19       ufacturing industries.

20           (16) To analyze legislative and agency pro-  
21       posals to assess and advise on their potential direct  
22       and indirect impact on the manufacturing industry.

23           (17) To work with agencies and the Director of  
24       the Office of Management and Budget in the devel-

1        opment of manufacturing-related elements of the  
2        President’s annual budget request to Congress.

3            (18) To identify and share best practice activi-  
4        ties designed to help support struggling manufac-  
5        turing enterprises to review business plans, improve  
6        competitiveness, and manage issues like succession  
7        planning to avoid closures and retain jobs.

8            (19) To assist States in their economic develop-  
9        ment plans for manufacturing, in their efforts to en-  
10       courage manufacturing enterprises to retain manu-  
11       facturing facilities within the United States, and to  
12       foster the domestic retention of facilities and jobs.

13           (20) To support communities negatively im-  
14       pacted by the closure or relocation of manufacturing  
15       facilities by promoting efforts to create an environ-  
16       ment and workforce equipped to attract advanced  
17       manufacturing enterprises.

18           (21) To promote and grow the Network for  
19       Manufacturing Innovation Program established  
20       under section 34 of the National Institute of Stand-  
21       ards and Technology Act (15 U.S.C. 278s).

22           (22) To review the effectiveness of and identify  
23       shortcomings in existing statutes and policies fo-  
24       cused on promoting the domestic use of federally

1 funded research and development in manufacturing  
2 technology.

3 (23) To identify and evaluate changes to exist-  
4 ing statutes and policies and to recommend legisla-  
5 tion and policies to more effectively ensure the do-  
6 mestic use of federally funded research and develop-  
7 ment in manufacturing technology and to recover  
8 such investments from profits realized as a result of  
9 offshore manufacturing of systems or components  
10 utilizing federally funded technologies or their de-  
11 rivatives.

12 (24) To work with appropriate agencies, State  
13 and local governments, regional organizations, insti-  
14 tutions of higher education, nonprofit organizations,  
15 and private companies to stimulate interest in manu-  
16 facturing careers.

17 (25) To enhance public perception of manufac-  
18 turing careers, encouraging participation of public  
19 and private organizations, State educational agen-  
20 cies, and institutions of higher education in the an-  
21 nual celebration of manufacturing industries on na-  
22 tional Manufacturing Day.

23 (26) To coordinate with activities under the  
24 Foreign Investment Risk Review Modernization Act  
25 of 2018 (Public Law 115–232) and the Committee

1 on Foreign Investment in the United States to en-  
2 sure the protection of sensitive emerging United  
3 States manufacturing-related technologies.

4 (27) To perform such other functions or activi-  
5 ties as the President may assign.

6 (d) NATIONAL MANUFACTURING STRATEGY.—

7 (1) IN GENERAL.—Not later than 1 year after  
8 the date of the enactment of this Act, and every 2  
9 years thereafter, the Chief Manufacturing Officer  
10 shall submit the National Manufacturing Strategy to  
11 the President and Congress. The Strategy shall con-  
12 tain a summary of the current state of manufac-  
13 turing in the United States and comprehensive strat-  
14 egies to—

15 (A) work across Federal and State govern-  
16 ment agencies to produce a coherent integrated  
17 strategy and plans;

18 (B) identify and address the anticipated  
19 workforce needs of the manufacturing sector,  
20 recognizing that this sector includes diverse in-  
21 dustries competing in different operating envi-  
22 ronments;

23 (C) work with industry experts to strength-  
24 en education initiatives, and shape training and

1 certificate programs that can be adapted to re-  
2 flect local circumstances;

3 (D) create or improve manufacturing  
4 training programs and appropriate career paths  
5 into manufacturing jobs, to expand opportuni-  
6 ties for all, and, in particular, the participation  
7 of veterans, the unemployed, women, and other  
8 underrepresented groups;

9 (E) promote the development of quality  
10 control and other technical standards;

11 (F) maintain reliable physical and tele-  
12 communication infrastructure and identify and  
13 advocate for future infrastructure requirements;

14 (G) analyze manufacturing technology  
15 needs, monitor technology developments, and  
16 analyze threats to and opportunities for the  
17 manufacturing sector;

18 (H) recommend appropriate tax incentives  
19 and financial tools to assist manufacturing en-  
20 terprises to improve their competitiveness;

21 (I) review Federal and State regulations to  
22 focus on reducing the cost of manufacturing,  
23 while improving innovation, productivity, and  
24 environmental sustainability;

1           (J) promote the export of United States  
2           manufactured goods and the enforcement of  
3           fair trade rules embedded in bilateral and inter-  
4           national agreements, including rules related to  
5           intellectual property rights and labor protection;

6           (K) identify other forms of assistance for  
7           companies that manufacture in the United  
8           States, enabling them to compete successfully in  
9           the international marketplace; and

10          (L) address such other issues as the Presi-  
11          dent determines necessary.

12          (2) INCORPORATION OF OTHER STRATEGIC  
13          PLANS.—The Chief Manufacturing Officer shall inte-  
14          grate into the National Manufacturing Strategy de-  
15          scribed in paragraph (1) the following:

16                (A) The national strategic plan for ad-  
17                vanced manufacturing developed under section  
18                102(c) of the America COMPETES Reauthor-  
19                ization Act of 2010 (42 U.S.C. 6622(c)).

20                (B) The strategic plan developed for the  
21                Network for Manufacturing Innovation Pro-  
22                gram under section 34(f)(2)(C) of the National  
23                Institute of Standards and Technology Act (15  
24                U.S.C. 278s(f)(2)(C)).

1                   (C) The manufacturing elements of the  
2                   National Nanotechnology Initiative Strategic  
3                   Plan under section 2(c)(4) of the 21st Century  
4                   Nanotechnology Research and Development Act  
5                   (15 U.S.C. 7501(c)(4)).

6           (e) BI-ANNUAL REPORT.—Not later than 2 years  
7 after the date of the enactment of this Act, and every 2  
8 years thereafter, the Chief Manufacturing Officer, in con-  
9 sultation with the Director of the Office of Management  
10 and Budget, shall submit to the President and Congress  
11 a report that describes progress made in the implementa-  
12 tion of the National Manufacturing Strategy and in fulfil-  
13 ment of its objectives.

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