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HOUSE BILL 2321

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**By** Representatives Salahuddin, Peterson, Berry, Taylor, Farivar, Reed, Ramel, Santos, Obras, Fitzgibbon, Leavitt, Nance, Callan, Kloba, Thomas, Ryu, Doglio, Gregerson, Ormsby, Berg, Reeves, Macri, Fosse, Bergquist, Hill, and Pollet

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1       AN ACT Relating to preventing the unlawful manufacturing of  
2 firearms by requiring three-dimensional printers be equipped with  
3 certain blocking technologies; adding a new chapter to Title 19 RCW;  
4 and prescribing penalties.

5       BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

6       NEW SECTION.     **Sec. 1.**     The definitions in this section apply  
7 throughout this chapter unless the context clearly requires  
8 otherwise.

9       (1) "Attorney general" includes the attorney general and his or  
10 her designees.

11       (2) "Equipped with blocking features" means a three-dimensional  
12 printer has integrated a software controls process that deploys a  
13 firearms blueprint detection algorithm, such that those features  
14 identify and reject print requests for firearms or illegal firearm  
15 parts with a high degree of reliability and cannot be overridden or  
16 otherwise defeated by a user with significant technical skill.

17       (3) "Firearm" has the same meaning as in RCW 9.41.010.

18       (4) "Firearms blueprint detection algorithm" means a software  
19 service that evaluates three-dimensional printing files, whether in  
20 the form of stereolithography (STL) files or other computer-aided  
21 design files or geometric code, to determine if they can be used to

1 program a three-dimensional printer to produce a firearm or illegal  
2 firearm parts, and flag any such files to prevent their use to  
3 manufacture said firearm or illegal firearm parts.

4 (5) "Illegal firearm parts" means an unfinished frame or  
5 receiver, as that term is defined in RCW 9.41.010, or any part  
6 designed and intended solely and exclusively for use in converting a  
7 weapon into a machine gun, as that term is defined in RCW 9.41.010.

8 (6) "Software controls process" means a system designed to stop a  
9 three-dimensional printer from initiating any print job unless the  
10 underlying three-dimensional printing file has been evaluated by a  
11 firearms blueprints detection algorithm and determined not to be a  
12 printing file that would produce a firearm or illegal firearm parts.

13 (7) "Three-dimensional printer" means (a) any machine capable of  
14 rendering a three-dimensional object from a digital design file using  
15 additive manufacturing or (b) any machine capable of making three-  
16 dimensional modifications to an object from a digital design file  
17 using subtractive manufacturing.

18 NEW SECTION. **Sec. 2.** This chapter applies to persons that  
19 conduct business in Washington or produce products or services that  
20 are sold or otherwise transferred to residents of Washington.

21 NEW SECTION. **Sec. 3.** (1) After July 1, 2027, no person who  
22 manufactures, wholesales, or sells any three-dimensional printer may  
23 sell or otherwise transfer for consideration a three-dimensional  
24 printer in this state unless:

25 (a) The three-dimensional printer is equipped with blocking  
26 features that prevent the printer from printing firearms and illegal  
27 firearm parts; and

28 (b) The manufacturer of the printer has attested to the  
29 integration of blocking features pursuant to subsection (2) of this  
30 section. Blocking features must meet or exceed the standards provided  
31 in sections 6 and 7 of this act and any rules and regulations adopted  
32 under those sections.

33 (2) To comply with the attestation requirement of subsection (1)  
34 of this section, before selling or otherwise transferring for  
35 consideration a three-dimensional printer, the manufacturer must  
36 submit to the attorney general an attestation under penalty of  
37 perjury that the manufacturer has equipped all makes and models of  
38 the three-dimensional printer sold or transferred in this state with

1 blocking features that meet or exceed the blocking features standards  
2 provided in sections 6 and 7 of this act and any rules and  
3 regulations adopted under those sections.

4 (3) The attorney general, in consultation with research  
5 institutions, government agencies, or any other organization the  
6 attorney general deems appropriate, shall adopt rules and regulations  
7 to establish standards for equipping a printer with the blocking  
8 features required by this section and for providing the attestation  
9 required by this section. The attorney general may adopt rules and  
10 regulations for any other processes the attorney general deems  
11 necessary to carry out the provisions of this chapter.

12 (4) This section does not apply to three-dimensional printers  
13 manufactured for, and exclusively sold to, buyers with a valid  
14 federal firearms manufacturing license issued under 18 U.S.C. Sec.  
15 923.

16 NEW SECTION. **Sec. 4.** (1) Every natural person who violates  
17 section 3 of this act shall, for a first offense, be guilty of a  
18 misdemeanor and, for a second or subsequent offense, be guilty of a  
19 class C felony.

20 (2) Every corporation, trust, unincorporated association, or  
21 partnership that violates section 3 of this act shall be guilty of a  
22 class C felony, punishable by up to five years in prison and a fine  
23 of up to \$15,000.

24 (3) Every natural person who files an attestation under section 3  
25 of this act containing materially false information, which he or she  
26 knows to be false, shall be guilty of perjury in the second degree  
27 under RCW 9A.72.030.

28 NEW SECTION. **Sec. 5.** The legislature finds that the practices  
29 covered by this chapter are matters vitally affecting the public  
30 interest for the purpose of applying the consumer protection act,  
31 chapter 19.86 RCW. A violation of this chapter is not reasonable in  
32 relation to the development and preservation of business and is an  
33 unfair or deceptive act in trade or commerce and an unfair method of  
34 competition for the purpose of applying the consumer protection act,  
35 chapter 19.86 RCW.

36 NEW SECTION. **Sec. 6.** (1) For the purpose of this chapter, a  
37 software controls process satisfies the blocking features requirement

1 only if it effectively rejects print requests for firearms or illegal  
2 firearm parts with a high degree of reliability, and if it prevents a  
3 user with significant technical skill from bypassing a digital  
4 firearm manufacturing code detection algorithm and thereby subverting  
5 the software controls process.

6 (2) A software controls process may be integrated into a three-  
7 dimensional printer's function in any of the following design forms:

8 (a) Firmware design. Integration of a firearms blueprint  
9 detection algorithm directly into a three-dimensional printer's  
10 firmware, such that any geometric code received by the printer must  
11 be screened by the algorithm before the printer will proceed to  
12 print, and such that the printer will reject print jobs identified by  
13 the algorithm as directing the printer to print firearms or illegal  
14 firearm parts;

15 (b) Integrated preprint software design. Limitation of a three-  
16 dimensional printer's operation to accept geometric code for printing  
17 exclusively from a single slicer or other preprint software, which  
18 may be the manufacturer's proprietary software, and integration of a  
19 firearms blueprint detection algorithm into that preprint software,  
20 such that any stereolithography file or other computer-aided design  
21 file must be screened by the algorithm before the software will  
22 proceed to produce geometric code, and such that the software will  
23 not produce geometric code for files that are identified by the  
24 algorithm as directing the printer to print firearms or illegal  
25 firearm parts; or

26 (c) Handshake authentication design. Limitation of a three-  
27 dimensional printer's operation to accept geometric code for printing  
28 only from specified slicers or other preprint software, wherein the  
29 printer will require a digital watermark or other authentication tool  
30 verifying the identity of the preprint software, and only if that  
31 preprint software has integrated a firearms blueprint detection  
32 algorithm qualified by the attorney general under subsection (4) of  
33 this section, such that any stereolithography file or other computer-  
34 aided design file must be screened by the algorithm before the  
35 software will proceed to produce geometric code, and such that the  
36 software will not produce geometric code for files that are  
37 identified by the algorithm as directing the printer to print  
38 firearms or illegal firearm parts.

39 (3) A software controls process may also be integrated into a  
40 three-dimensional printer's function using a different design form

1 than those described in subsection (2) of this section, provided that  
2 the software controls process both rejects print requests for  
3 firearms or illegal firearm parts with a high degree of reliability  
4 and is no less resistant to being defeated by a user with significant  
5 technical skill than the design forms described in subsection (2) of  
6 this section.

7 (4) The attorney general, in consultation with research  
8 institutions, government agencies, or any other organization the  
9 attorney general deems appropriate, may adopt any rules or  
10 regulations to further establish standards for software control  
11 processes.

12 NEW SECTION. **Sec. 7.** (1) For the purpose of this chapter, a  
13 firearms blueprint detection algorithm satisfies the blocking  
14 features requirement only if it has the capacity, to a high degree of  
15 reliability, to:

16 (a) Screen three-dimensional printing files, whether in the form  
17 of stereolithography files or other computer-aided design files or  
18 geometric code;

19 (b) Detect and identify any such files that can be used to  
20 program a three-dimensional printer to produce firearms or illegal  
21 firearm parts; and

22 (c) Flag any such disallowed files for rejection by a software  
23 controls process.

24 (2) An algorithm must use, at a minimum, a database of disallowed  
25 firearms blueprint files that have been commonly downloaded or shared  
26 on public internet forums. The algorithm must have the capacity both  
27 to detect files in its database and to actively seek to detect  
28 modified versions of those files. The attorney general may by rule or  
29 regulation require that an algorithm evaluate print requests, at a  
30 minimum, against all files in the files database described in section  
31 8 of this act. An algorithm does not need to produce a perfect  
32 success rate at detecting disallowed files to effectively serve in  
33 blocking technology but must meet the technical standards for  
34 detection and flagging of disallowed files that are set forth in  
35 rules or regulations adopted by the attorney general pursuant to this  
36 chapter.

37 (3) The database of disallowed firearms blueprint files that an  
38 algorithm uses must be able to be regularly updated, to an extent and  
39 with a frequency to be determined by the attorney general by rule or

1 regulation that accounts for the rate of innovation in commonly  
2 available disallowed files.

3 (4) The attorney general, in consultation with research  
4 institutions, government agencies, or any other organization the  
5 attorney general deems appropriate, may adopt any rules or  
6 regulations to further establish standards for firearms blueprint  
7 detection algorithms, including rules and regulations requiring  
8 developers and users of such algorithms to update such algorithms if  
9 new technology is found to be substantially more effective.

10 NEW SECTION. **Sec. 8.** (1) By August 1, 2026, the attorney  
11 general shall create and maintain a database of firearms blueprint  
12 files and illegal firearm parts blueprint files, including, at a  
13 minimum, by conducting reasonable searches of public internet forums,  
14 and shall maintain and update the database at least once per year,  
15 including by adding newly discovered files that enable the three-  
16 dimensional printing of firearms or illegal firearm parts.

17 (2) The attorney general may consult with other government  
18 agencies and research institutions in this state to create and  
19 maintain a database of firearms blueprint files and illegal firearm  
20 parts blueprint files.

21 NEW SECTION. **Sec. 9.** Sections 1 through 8 of this act  
22 constitute a new chapter in Title 19 RCW.

23 NEW SECTION. **Sec. 10.** If any provision of this act or its  
24 application to any person or circumstance is held invalid, the  
25 remainder of the act or the application of the provision to other  
26 persons or circumstances is not affected.

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