AMENDMENT TO H.R. 7273

OFFERED BY MRS. FOUSHEE OF NORTH CAROLINA

Add at the end of title VI the following:

SEC. 622. STUDY ON DEVELOPMENT, USE, AND APPLICATION OF ARTIFICIAL INTELLIGENCE IN SPACE SCIENCE.

(a) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act, the Administrator shall enter into an agreement with the Director of the National Academies of Sciences to conduct a study on the development, use, and application of artificial intelligence, including any prospective such development, use, and application, with respect to space science and activities related to space. Such study shall include the following:

(1) Any research conducted, published, or funded by NASA related to any such development, use, and application.

(2) An analysis of any such development, use, and application related to the space science ecosystem, including with respect to publishing, teaching, data analysis, modeling, and research.

(3) Any relevant risks, including related to varying levels of autonomy of any such artificial intelligence, identified relating to such development, use, and application.

(4) The recommendations specified in subsection (b).

(b) RECOMMENDATIONS SPECIFIED.—The recommendations specified in this subsection are the following:

(1) Any priorities for the development of guidelines or best practices for the responsible development, use, and application of artificial intelligence in research conducted, published, or funded by NASA referred to in paragraph (1) of subsection (a), related to the following:

(A) Managing any risks identified under paragraph (3) of such subsection.

(B) Ensuring transparency with respect to any such development, use, and application.

(C) Identifying opportunities to improve any such development, use, and application with respect to training artificial intelligence models, including by applying concepts from fundamental science disciplines, including physics and astronomy.

(2) Any opportunities for the improvement of training, education, and technical assistance related to artificial intelligence for students, early-career researchers, and the workforce of NASA to facilitate such development, use, and application.

(3) Any mechanisms for the continued collaboration between NASA, the scientific community, and relevant private sector entities to support such development, use, and application.

(4) Any priorities for any future such development, use, and application.

(c) CONSULTATION.—In conducting the study under subsection (a), the Director of the National Academies of Sciences shall carry out the following:

(1) Seek to consult with appropriate representatives of the following:

(A) Academia.

(B) Scientific societies.

(C) Industry.

(D) Civil society.

(2) Consult with appropriate representatives of relevant Federal departments and agencies.

(d) CONSIDERATION.—In conducting the study, the Director of the National Academies of Sciences shall consider the following:

(1) Guidance developed pursuant to section 22A(e) of the National Institute of Standards and Technology Act (15 U.S.C. 278h-1(e)).

(2) Relevant memoranda developed by the Director of the Office of Budget and Management.

(3) Any relevant consensus technical standards.

(e) REPORT.—Not later than 1 year after the date of the enactment of this Act, the Director of the National Academies of Sciences shall submit to the Administrator and the appropriate committees of Congress a report that includes information related to the study conducted under subsection (a).

(f) ARTIFICIAL INTELLIGENCE DEFINED.—In this section, the term ''artificial intelligence'' has the meaning given the term in section 5002 of the National Artificial Intelligence Initiative Act of 2020 (15 U.S.C. 9401).