

including information on accomplishments and best practices;

(3) expand the education and training of students at appropriate levels of education, professional scientists and engineers, and other professionals involved in all aspects of sustainable chemistry and engineering appropriate to that level of education and training, including through—

(A) partnerships with industry as described in section 9304 of this title;

(B) support for the integration of sustainable chemistry principles into chemistry and chemical engineering curriculum and research training, as appropriate to that level of education and training; and

(C) support for integration of sustainable chemistry principles into existing or new professional development opportunities for professionals including teachers, faculty, and individuals involved in laboratory research (product development, materials specification and testing, life cycle analysis, and management);

(4) as relevant to an agency's programs, examine methods by which the Federal agencies, in collaboration and consultation with the National Institute of Standards and Technology, may facilitate the development or recognition of validated, standardized tools for performing sustainability assessments of chemistry processes or products;

(5) through programs identified by an agency, support, including through technical assistance, participation, financial support, communications tools, awards, or other forms of support, outreach and dissemination of sustainable chemistry advances such as non-Federal symposia, forums, conferences, and publications in collaboration with, as appropriate, industry, academia, scientific and professional societies, and other relevant groups;

(6) provide for public input and outreach to be integrated into the activities described in this section by the convening of public discussions, through mechanisms such as public meetings, consensus conferences, and educational events, as appropriate;

(7) within each agency, develop or adapt metrics to track the outputs and outcomes of the programs supported by that agency; and

(8) incentivize or recognize actions that advance sustainable chemistry products, processes, or initiatives, including through the establishment of a nationally recognized awards program through the Environmental Protection Agency to identify, publicize, and celebrate innovations in sustainable chemistry and chemical technologies.

(c) Limitations

Financial support provided under this section shall—

(1) be available only for pre-competitive activities; and

(2) not be used to promote the sale of a specific product, process, or technology, or to disparage a specific product, process, or technology.

(Pub. L. 116-283, div. A, title II, §263, Jan. 1, 2021, 134 Stat. 3500.)

§ 9304. Partnerships in sustainable chemistry

(a) In general

The agencies participating in the Entity may facilitate and support, through financial, technical, or other assistance, the creation of partnerships between institutions of higher education, nongovernmental organizations, consortia, or companies across the value chain in the chemical industry, including small- and medium-sized enterprises, to—

(1) create collaborative sustainable chemistry research, development, demonstration, technology transfer, and commercialization programs; and

(2) train students and retrain professional scientists, engineers, and others involved in materials specification on the use of sustainable chemistry concepts and strategies by methods, including—

(A) developing or recognizing curricular materials and courses for undergraduate and graduate levels and for the professional development of scientists, engineers, and others involved in materials specification; and

(B) publicizing the availability of professional development courses in sustainable chemistry and recruiting professionals to pursue such courses.

(b) Private sector participation

To be eligible for support under this section, a partnership in sustainable chemistry shall include at least one private sector organization.

(c) Selection of partnerships

In selecting partnerships for support under this section, the agencies participating in the Entity shall also consider the extent to which the applicants are willing and able to demonstrate evidence of support for, and commitment to, the goals outlined in the strategic plan and report described in section 9302 of this title.

(d) Prohibited use of funds

Financial support provided under this section may not be used—

(1) to support or expand a regulatory chemical management program at an implementing agency under a State law;

(2) to construct or renovate a building or structure; or

(3) to promote the sale of a specific product, process, or technology, or to disparage a specific product, process, or technology.

(Pub. L. 116-283, div. A, title II, §264, Jan. 1, 2021, 134 Stat. 3501.)

§ 9305. Prioritization

In carrying out this chapter, the Entity shall focus its support for sustainable chemistry activities on those that achieve, to the highest extent practicable, the goals outlined in the chapter.

(Pub. L. 116-283, div. A, title II, §265, Jan. 1, 2021, 134 Stat. 3502.)

Editorial Notes

REFERENCES IN TEXT

This chapter, referred to in text, was in the original "this subtitle", meaning subtitle E (§§261-267) of title II

of Pub. L. 116-283, div. A, Jan. 1, 2021, 134 Stat. 3497, which is classified principally to this chapter. For complete classification of subtitle E to the Code, see Tables.

§ 9306. Rule of construction

Nothing in this chapter shall be construed to alter or amend any State law or action with regard to sustainable chemistry, as defined by the State.

(Pub. L. 116-283, div. A, title II, §266, Jan. 1, 2021, 134 Stat. 3502.)

Editorial Notes

REFERENCES IN TEXT

This chapter, referred to in text, was in the original “this subtitle”, meaning subtitle E (§§ 261-267) of title II of Pub. L. 116-283, div. A, Jan. 1, 2021, 134 Stat. 3497, which is classified principally to this chapter. For complete classification of subtitle E to the Code, see Tables.

CHAPTER 119—NATIONAL ARTIFICIAL INTELLIGENCE INITIATIVE

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§ 9401. Definitions

In this chapter:

(1) Advisory Committee

The term “Advisory Committee” means the National Artificial Intelligence Advisory Committee established under section 9414(a) of this title.

(2) Agency head

The term “agency head” means the head of any Executive agency (as defined in section 105 of title 5).

(3) Artificial intelligence

The term “artificial intelligence” means a machine-based system that can, for a given set

of human-defined objectives, make predictions, recommendations or decisions influencing real or virtual environments. Artificial intelligence systems use machine and human-based inputs to—

(A) perceive real and virtual environments;

(B) abstract such perceptions into models through analysis in an automated manner; and

(C) use model inference to formulate options for information or action.

(4) Community college

The term “community college” means a public institution of higher education at which the highest degree that is predominantly awarded to students is an associate’s degree, including 2-year Tribal Colleges or Universities under section 1059c of title 20 and public 2-year State institutions of higher education.

(5) Initiative

The term “Initiative” means the National Artificial Intelligence Initiative established under section 9411(a) of this title.

(6) Initiative Office

The term “Initiative Office” means the National Artificial Intelligence Initiative Office established under section 9412(a) of this title.

(7) Institute

The term “Institute” means an Artificial Intelligence Research Institute described in section 9431(b)(2) of this title.

(8) Institution of higher education

The term “institution of higher education” has the meaning given the term in section 1001 and section 1002(c) of title 20.

(9) Interagency Committee

The term “Interagency Committee” means the interagency committee established under section 9413(a) of this title.

(10) K-12 education

The term “K-12 education” means elementary school and secondary school education provided by local educational agencies, as such agencies are defined in section 7801 of title 20.

(11) Machine learning

The term “machine learning” means an application of artificial intelligence that is characterized by providing systems the ability to automatically learn and improve on the basis of data or experience, without being explicitly programmed.

(Pub. L. 116-283, div. E, §5002, Jan. 1, 2021, 134 Stat. 4523.)

Editorial Notes

REFERENCES IN TEXT

This chapter, referred to in text, was in the original “this division”, meaning div. E of Pub. L. 116-283, Jan. 1, 2021, 134 Stat. 4523, which is classified principally to this chapter. For complete classification of div. E to the Code, see Short Title note set out below and Tables.