

essary for fiscal year 2009 and each of the five succeeding fiscal years.

(Pub. L. 89-329, title VIII, §873, as added Pub. L. 110-315, title VIII, §801, Aug. 14, 2008, 122 Stat. 3428.)

PART U—UNIVERSITY SUSTAINABILITY PROGRAMS

§ 1161u. Sustainability planning grants authorized

(a) Program authorized

(1) In general

From the amounts appropriated to carry out this section, the Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall make grants to eligible entities to establish sustainability programs to design and implement sustainability practices, including in the areas of energy management, greenhouse gas emissions reductions, green building, waste management, purchasing, transportation, and toxics management, and other aspects of sustainability that integrate campus operations with multidisciplinary academic programs and are applicable to the private and government sectors.

(2) Period of grant

The provision of payments under a grant under paragraph (1) shall extend over a period of not more than four fiscal years.

(3) Definition of eligible entity

For purposes of this part, the term “eligible entity” means—

(A) an institution of higher education; or

(B) a nonprofit consortium, association, alliance, or collaboration operating in partnership with one or more institutions of higher education that received funds for the implementation of work associated with sustainability programs under this part.

(b) Applications

(1) In general

To receive a grant under subsection (a)(1), an eligible entity shall submit an application to the Secretary at such time, in such form, and containing such information as the Secretary may reasonably require.

(2) Assurances

Such application shall include assurances that the eligible entity—

(A) has developed a plan, including an evaluation component, for the program component established pursuant to subsection (c);

(B) shall use Federal funds received from a grant under subsection (a) to supplement, not supplant, non-Federal funds that would otherwise be available for projects funded under this section;

(C) shall provide, with respect to any fiscal year in which such entity receives funds from a grant under subsection (a)(1), non-Federal funds or an in-kind contribution in an amount equal to 20 percent of funds from such grant, for the purpose of carrying out the program component established pursuant to subsection (c); and

(D) shall collaborate with business, government, and the nonprofit sectors in the development and implementation of its sustainability plan.

(c) Use of funds

(1) Individual institutions

Grants made under subsection (a) may be used by an eligible entity that is an individual institution of higher education for the following purposes:

(A) To develop and implement administrative and operations practices at an institution of higher education that test, model, and analyze principles of sustainability.

(B) To establish multidisciplinary education, research, and outreach programs at an institution of higher education that address the environmental, social, and economic dimensions of sustainability.

(C) To support research and teaching initiatives that focus on multidisciplinary and integrated environmental, economic, and social elements.

(D) To establish initiatives in the areas of energy management, greenhouse gas emissions reductions, green building, waste management, purchasing, toxics management, transportation, and other aspects of sustainability.

(E) To support student, faculty, and staff work at an institution of higher education to implement, research, and evaluate sustainable practices.

(F) To expand sustainability literacy on campus.

(G) To integrate sustainability curricula in all programs of instruction, particularly in business, architecture, technology, manufacturing, engineering, and science programs.

(2) Partnerships

Grants made under subsection (a) may be used by an eligible entity that is a nonprofit consortium, association, alliance, or collaboration operating in partnership with one or more institutions of higher education for the following purposes:

(A) To conduct faculty, staff and administrator training on the subjects of sustainability and institutional change.

(B) To compile, evaluate, and disseminate best practices, case studies, guidelines and standards regarding sustainability.

(C) To conduct efforts to engage external stakeholders such as business, alumni, and accrediting agencies in the process of building support for research, education, and technology development for sustainability.

(D) To conduct professional development programs for faculty in all disciplines to enable faculty to incorporate sustainability content in their courses.

(E) To create the analytical tools necessary for institutions of higher education to assess and measure their individual progress toward fully sustainable campus operations and fully integrating sustainability into the curriculum.

(F) To develop educational benchmarks for institutions of higher education to deter-

mine the necessary rigor and effectiveness of academic sustainability programs.

(d) Reports

An eligible entity that receives a grant under subsection (a) shall submit to the Secretary, for each fiscal year in which the entity receives amounts from such grant, a report that describes the work conducted pursuant to subsection (c), research findings and publications, administrative savings experienced, and an evaluation of the program.

(e) Allocation requirement

The Secretary may not make grants under subsection (a) to any eligible entity in a total amount that is less than \$250,000 or more than \$2,000,000.

(f) Authorization of appropriations

There are authorized to be appropriated to carry out this section such sums as may be necessary for fiscal year 2009 and each of the five succeeding fiscal years.

(Pub. L. 89-329, title VIII, §881, as added Pub. L. 110-315, title VIII, §801, Aug. 14, 2008, 122 Stat. 3430.)

PART V—MODELING AND SIMULATION PROGRAMS

§ 1161v. Modeling and simulation

(a) Purpose; definition

(1) Purpose

The purpose of this section is to promote the study of modeling and simulation at institutions of higher education, through the collaboration with new and existing programs, and specifically to promote the use of technology in such study through the creation of accurate models that can simulate processes or recreate real life, by—

- (A) establishing a task force at the Department of Education to raise awareness of and define the study of modeling and simulation;
- (B) providing grants to institutions of higher education to develop new modeling and simulation degree programs; and
- (C) providing grants for institutions of higher education to enhance existing modeling and simulation degree programs.

(2) Definition

In this section, the term “modeling and simulation” means a field of study related to the application of computer science and mathematics to develop a level of understanding of the interaction of the parts of a system and of a system as a whole.

(b) Establishment of task force

(1) In general

Subject to the availability of appropriations, the Secretary shall establish a task force within the Department to study modeling and simulation and to support the development of the modeling and simulation field. The activities of such task force shall include—

- (A) helping to define the study of modeling and simulation (including the content of modeling and simulation classes and programs);

- (B) identifying best practices for such study;

- (C) identifying core knowledge and skills that individuals who participate in modeling and simulation programs should acquire; and

- (D) providing recommendations to the Secretary with respect to—

- (i) the information described in subparagraphs (A) through (C); and
- (ii) a system by which grants under this section will be distributed.

(2) Task force membership

The membership of the task force under this subsection shall be composed of representatives from—

- (A) institutions of higher education with established modeling and simulation degree programs;
- (B) the National Science Foundation;
- (C) Federal Government agencies that use modeling and simulation extensively, including the Department of Defense, the National Institutes of Health, the Department of Homeland Security, the Department of Health and Human Services, the Department of Energy, and the Department of Transportation;
- (D) private industries with a primary focus on modeling and simulation;
- (E) national modeling and simulation organizations; and
- (F) the Office of Science and Technology Policy.

(c) Enhancing modeling and simulation at institutions of higher education

(1) Enhancement grants authorized

(A) In general

The Secretary is authorized to award grants, on a competitive basis, to eligible institutions to enhance modeling and simulation degree programs at such eligible institutions.

(B) Duration of grant

A grant awarded under this subsection shall be awarded for a three-year period, and such grant period may be extended for not more than two years if the Secretary determines that an eligible institution has demonstrated success in enhancing the modeling and simulation degree program at such eligible institution.

(C) Minimum grant amount

Subject to the availability of appropriations, a grant awarded to an eligible institution under this subsection shall not be less than \$750,000.

(D) Non-Federal share

Each eligible institution receiving a grant under this subsection shall provide, from non-Federal sources, in cash or in-kind, an amount equal to 25 percent of the amount of the grant to carry out the activities supported by the grant. The Secretary may waive the non-Federal share requirement under this subparagraph for an eligible institution if the Secretary determines a waiver