Chapter PI 31

SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION GRANTS

Note: Chapter PI 31 was created as an emergency rule effective November 14, 1989.

PI 31.01 Definitions. In this chapter:

(1) "Business/industry" means a business, industry, institution of higher learning or other agency in science and technology-related fields.

(2) "CESA" means a cooperative educational service agency created under ch. 116, Stats.

(3) "Professional scientist, engineer, mathematician or environmental scientist" means a person who is, or has been, one of the following:

(a) Primarily involved in applying science, engineering or technology, or mathematics knowledge.

(b) Primarily involved in training in industrial or academic research and development.

(c) A teacher of persons under par. (a) or (b).

(4) "School board" has the meaning given in s. 115.001 (7), Stats.

(5) "66.30 agreement" means an agreement between 2 or more school districts or other municipality as defined under s. 66.30 (1) (a), Stats.

(6) "State superintendent" means the state superintendent of public instruction for the state of Wisconsin.

(7) "UW center" means a center of the university of Wisconsin system as defined in s. 36.05 (4), Stats.

(8) "UW institution" means an institution of the university of Wisconsin system as defined in s. 36.05 (9), Stats.

(9) "VTAE" means a vocational, technical and adult education district established under ch. 38, Stats.

History: Cr. Register, April, 1990, No. 412, eff. 5-1-90; emerg. am. (3) (intro.), eff. 9-26-91; am. (3) (intro.), Register, June, 1992, No. 438, eff. 7-1-92.

PI 31.02 Science, mathematics and technology education grants. (1) Under s. 115.392, Stats., a school board, or a school board in cooperation with one or more of the following, may apply to the state superintendent for a science, mathematics and technology education grant:

(a) Another school board under a 66.30 agreement.

(b) A CESA board as specified in s. 116.03 (3), Stats.

(c) A VTAE district board under a 66.30 agreement.

(d) A UW institution or center under a 66.30 agreement.

(2) As specified in s. 115.392 (2), Stats., the state superintendent may award a grant for the establishment of a school and community partnership program designed to promote the interaction of pupils and teachers with professional scientists, engineers, mathematicians, and environmental scientists. The grant recipient may use the funds for a program under ss. PI 31.03 to 31.08.

(3) As specified in s. 115.392 (3) (a), Stats., a school board which receives a grant under s. 115.392, Stats., and this chapter shall provide a matching contribution of at least 50% of the cost of the project. Private funds and in-kind contributions may be used to meet the matching fund requirement and the school board shall provide assurances that the requirements of s. 115.392 (4), Stats., will be met.

(4) (a) Priority in awarding grants shall be given to projects which best meet the following criteria:

1. Shows active involvement of the business community and appropriate private agencies within the community in the planning and operation of the project.

2. Contains measurable goals and objectives for the project, including both teacher and pupil outcomes.

3. Shows how the project will improve the school district's instruction in science, mathematics or technology.

4. Includes contributions or participation from the business community as all or part of the required 50% match.

5. Any additional requirements in ss. PI 31.03 to 31.08.

(b) Secondary criteria in awarding grants shall include the following:

1. To the extent possible, awards will benefit the greatest number of school districts, pupils and teachers. Therefore, preference in awarding grants may be given to projects developed and operated in cooperation with other educational agencies as described in sub. (1).

2. To the extent possible, the grants shall be distributed equally throughout the state.

3. To the extent possible, grants shall be awarded to school districts of varying sizes, as determined by enrollment.

4. To the extent possible, grants shall be equitably distributed among projects in the categories under ss. PI 31.03 to 31.08.

History: Cr. Register, April, 1990, No. 412, eff. 5-1-90; emerg. am. (2), (4) (a) 5. and (b) 4., eff. 9-26-91; am. (2), (4) (a) 5. and (b) 4., Register, June, 1992, No. 438, eff. 7-1-92.

PI 31.03 Science, mathematics and technology education consultants. (1) Under s. 115.392 (2) (a), Stats., a grant may be made to pay the salary of a professional scientist, engineer or mathematician, who is not a school board employe, to work at least one week but not more than one school year as a consultant to the school district to assist teachers and offer

demonstrations and in-service training. A grant application under this section shall include the following:

(a) A vita or other information describing the qualifications of the professional scientist, engineer or mathematician.

(b) A description of the services or training the professional scientist, engineer or mathematician will provide, such as the following:

1. Inservice training to enable teachers to improve their instruction through knowledge of the practical application of science, mathematics or technology.

2. Demonstrations to classes of practical applications of science, mathematics or technology.

3. Scientist, engineer or mathematician-in-residence.

4. Consultation, direction and ongoing assistance for a particular project involving the practical application of science, mathematics or technology.

5. Other projects which will promote interaction of the professional scientist, engineer or mathematician with pupils and teachers.

(c) The period of time the professional scientist, engineer or mathematician will work in the school district and the amount which she or he will be paid. The fees paid shall be in accordance with school district policy.

(d) A description of all costs of the project, including how the 50% matching contribution will be met.

(e) The amount of time the professional scientist, engineer or mathematician will work in the school district.

(2) A professional scientist, engineer or mathematician whose salary is paid for by a grant under this section, may not be given an assignment to teach a class or a specific class period in lieu of a licensed teacher, nor to replace any school district employe on either a short-term or a long-term basis.

History: Cr. Register, April, 1990, No. 412, eff. 5-1-90; renum to be (1), and as renum. am. (1) (b) 2., cr. (2), Register, June, 1992, No. 438, eff. 7-1-92.

PI 31.04 Science, mathematics and technology internships. Under s. 115.392 (2) (b), Stats., a grant may be made to establish science, mathematics and technology internships in which pupils and teachers may work with a Wisconsin business/industry, part time during the school term or full time during the summer. A grant application under this section shall include the following:

(1) Information about the business/industry where the internship will be served, including the name of the business/industry, a description of the business, industry or research in which it is involved, the name of the person who will be responsible for the project, the location and other relevant information.

(2) A detailed job description for the internship. If the job is performed by a pupil, all applicable laws relating to the employment of minors shall be followed.

(3) General and specific objectives to be accomplished.

(4) An explanation of how the internship will meet the needs of the teacher, the pupil or the school district.

(5) A description of how the internship relates to the school district's science, mathematics or technology education curriculum.

(6) The amount which the teacher or pupil will be paid for the internship. The amount which the teacher will be paid shall be established cooperatively with the business/industry and the school board.

(7) A description of all costs of the project, including how the 50% matching contribution will be met.

(8) Assurance from each business/industry participating in the internship program that no person employed by the business/industry will be terminated from employment, laid-off or otherwise displaced as a result of that business/industry participating in the program.

History: Cr. Register, April, 1990, No. 412, eff. 5-1-90.

PI 31.05 Development or demonstration of biotechnology curriculum materials. Under s. 115.392 (2) (c), Stats., a grant may be made to develop or demonstrate biotechnology curriculum for use in educational programs or to train instructors in their use. Only projects suitable as a model usable or adaptable by other school districts shall be considered for funding under this section. An application under this section shall include the following:

(1) A description of the proposed project, including the rationale, goals and objectives and instructional plan.

(2) A plan for evaluation of the curriculum developed under the project.

(3) A description of how the following requirements in s. 115.392 (4m), Stats., will be met:

(a) Curriculum materials shall be balanced in their approach to biotechnology and include social, economic and environmental concerns.

(b) Curriculum materials shall be made available to interested schools and other educational institutions at a reasonable cost.

(4) A description of all costs of the project, including how the 50% matching contribution will be met.

History: Cr. Register, April, 1990, No. 412, eff. 5-1-90.

PI 31.06 Environmental scientist-in-residence program. (1) Under s. 115.392 (2) (d), Stats., a grant may be made to pay the salary of an environmental scientist, who is not a school board employe of the grant recipient, to work at least one week but not more than the 18-month grant period as a consultant to the school district to assist teachers and pupils in applying science, mathematics and technology education to community environmental projects through demonstrations and in-service training. A grant application under this section shall include the following:

(a) A vita or other information describing the qualifications of the environmental scientist.

(b) A description of the services or training the environmental scientist will provide, such as the following:

1. Inservice training to enable teachers to improve their instruction through knowledge of the practical applications of environmental science issues.

2. Demonstations to classes of practical applications of environmental science topics.

3. Consultation, direction and ongoing assistance by an environmental scientist-in-residence for a particular project involving the applications of environmental sciences.

4. Other projects which will promote interaction of the environmental scientist with pupils and teachers.

(c) The period of time the environmental scientist will work in the school district and the amount which she or he will be paid. The fees paid shall be in accordance with school district policy.

(d) A description of all costs of the project, including how the 50% matching contribution will be met.

(e) The amount of time the environmetal scientist will work in the school district.

(2) An environmental scientist whose salary is paid for by a grant under this section, may not be given an assignment to teach a class or specific class period in lieu of a licensed teacher and may not replace any school district employe on either a short-term or long-term basis.

History: Emerg. cr. eff. 9-26-91; cr. Register, June, 1992, No. 438, eff. 7-1-92.

PI 31.07 Interdisciplinary program for pupils in elementary grades. Under s. 115.392 (2) (e), Stats., a grant may be made to develop an interdisciplinary program for pupils in elementary grades kindergarten to grade 5 involving laboratory and field experiences in basic research and experimental activities. This program shall be designed to stimulate an interest and to continue to motivate students in science, mathematics, and technology. Only projects suitable as a model and adaptable by other school districts shall be considered for funding under this section. An application under this section shall include the following:

(1) A description of the proposed project, including the rationale, goals and learner outcomes, instructional plan, and student assessment procedures.

(2) A plan for the evaluation of the project.

(3) A description of all costs of the project, including how the 50% matching contribution will be met

History: Emerg. cr. eff. 9-26-91; cr. Register, June, 1992, No. 438, eff. 7-1-92.

PI 31.08 Programs designed for underserved populations. Under s. 115.392 (2) (f), Stats., a grant may be made to develop a program designed to encourage girls and minority group pupils to pursue advanced studies and careers in science, mathematics, engineering, research and technology-related fields. An application under this section shall include the folowing:

(1) A description of the proposed project, including the rationale, goals and learner outcomes, instructional plan, and student assessment procedures.

(2) A plan for the evaluation of the project.

(3) A description of all costs of the project, including how the 50% matching contribution will be met.

History: Emerg. cr. eff. 9-26-91; cr. Register, June, 1992, No. 438, eff. 7-1-92.

PI 31.09 Contract under s. 115.392 (3) (b), Stats. Under s. 115.392 (3) (b), Stats., the state superintendent may contract with a private, nonprofit organization for the services under s. 115.392 (2), Stats., but no more than 7.5% of the total amount awarded for projects under s. 115.392 (2), Stats., may be used for such a contract. The contract may include the following services:

(1) Locating and hiring qualified professional scientists, engineers and mathematicians to work with school districts as described in s. 115.392 (2) (a), Stats. The private, nonprofit organization shall submit an application which includes, for each school district receiving the services, all of the information required under s. PI 31.03. Fifty percent of the cost of the services of the project shall be paid from the contract under this section, the other 50% shall be paid by the grant recipient as the required 50% matching contribution.

(2) Locating and arranging with appropriate business/industry to establish science, mathematics and technology internships as described in s. 115.392 (2) (b), Stats. The private, nonprofit organization shall submit an application which includes, for each school district participating in the internship program, all of the information required under s. PI 31.04. Fifty percent of the cost of the project shall be paid from the contract under this section, the other 50% shall be paid by the grant recipient as the required 50% matching contribution.

(3) Development of biotechnology curriculum materials as described in s. 115.392 (2) (c), Stats.

(4) Demonstrating biotechnology curriculum materials or training teachers in their use. Each school district in which the curriculum materials are demonstrated, or which has teachers participating in the training shall pay 50% of the cost of the demonstration or training.

(5) Locating and hiring qualified environmental scientists to work with school districts as described in s. 115.392 (2) (d), Stats. The private, nonprofit organization shall submit an application which includes, for each school district receiving the services, all of the information required under s. PI 31.06. Fifty percent of the cost of the services of the project shall be paid from the contract under this section, the other 50% shall be paid by the grant recipient as the required 50% matching contribution.

(6) Development and implementation of an interdisciplinary program for pupils in elementary grades kindergarten through grade 5 as described in s. 115.392 (2) (e), Stats.

(7) Development and implementation of a program designed to encourage girls and minority group pupils to pursue advanced studies and careers in science, mathematics, engineering, research and technology-related fields as described in s. 115.392 (2) (f), Stats.

Note: PI-3103, Grant Application for Science, Math, and Technology Education, may be obtained by writing to the Wisconsin Department of Public Instruction, Bureau for Program Development, P.O. Box 7841, Madison, Wisconsin 53707-7841.

History: Cr. Register, April, 1990, No. 412, eff. 5-1-90; emerg. renum. from PI 31.07, cr. (5) to (7), eff. 9-26-91; renum. from PI 31.07, cr. (5) to (7), Register, June, 1992, No. 438, eff. 7-1-92.