



Integrate State Learning Standards/FieldSTEM

1. **Purpose:**

The purpose of this program is to provide professional learning and support to teachers and administrators to integrate the state learning standards in English language arts, mathematics, and science with real world and career connected FieldSTEM outdoor field studies and project-based and work-based learning opportunities that are aligned with environmental, natural resource, and agricultural sectors of the economy.

2. **Description of services provided:**

The contractor, Pacific Education Institute (PEI), offered:

- 91 workshop clock hours
- 2 FieldSTEM® Leadership Institutes for 50 school and district administrators
- 21 FieldSTEM® workshops for 900 educators (14 teacher workshops and 8 teacher-leader workshops)

Educators served by grade band: 37% taught K-2; 29% taught 3-5; 13% taught 6-8; 12% taught 9-12; and 9% represented "other" – likely serving broader grade bands as specialists for schools.

FieldSTEM® was implemented in 81 districts and 228 schools. As a result of the proviso, 31,367 students benefited from implementation of FieldSTEM®.

PEI created the following resources to support implementation and assessment:

- Four new Math Performance Tasks
- 11 English language arts performance tasks and student booklets translated into Spanish
- performance tasks were downloaded 238 times

3. **Criteria for receiving services and/or grants:**

The contractor, PEI, met all criteria prescribed in the proviso. Any district, school or teacher can receive FieldSTEM® services. The Pacific Education Institute's preferred method of engagement is to start with an agreement from district and school administrators to support their educators as they implement [FieldSTEM®](#). Each district and/or school completes an initial assessment (continuum) and completes

the assessment again in the next school year to monitor growth resulting from implementation with fidelity.

Beneficiaries in 2020-21 School Year:

Number of School Districts: 81
Number of Schools: 228
Number of Students: 31,367
Number of Educators: 900
Other: Administrators 50

Number of OSPI staff associated with this funding (FTEs): 0.3 FTE
Number of contractors/other staff associated with this funding: 1 Contract

FY21 Funding: State Appropriation: \$500,000
Federal Appropriation: \$0
Other fund sources: \$0
TOTAL (FY21) \$500,000

4. **Are federal or other funds contingent on state funding?**

- No
- Yes, please explain.

5. **State funding history:**

Fiscal Year	Amount Funded	Actual Expenditures
FY21	\$500,000	\$492,918
FY20	\$500,000	\$500,000
FY19	\$500,000	\$500,000
FY18	\$500,000	\$500,000
FY17	\$500,000	\$500,000
FY16	\$500,000	\$500,000

6. **Number of beneficiaries (e.g., school districts, schools, students, educators, other) history:**

Fiscal Year	Number of School Districts	Number of Students	Number of Educators	Number of Administrators
FY21	81	31,367	900	50
FY20	74	29,023	651	47
FY19	64	14,336	512	N/A
FY18	52	13,628	290	N/A

7. **Programmatic changes since inception (if any):**

PEI has followed the program as planned according to the agreement; in 2020-21, PEI effectively and efficiently continued online learning and teaching during the coronavirus pandemic.

8. **Evaluations of program/major findings:**

This year's evaluation collected data from participants in two FieldSTEM® Leadership Meetings, (50 attendees, 17 completed evaluations), eight FieldSTEM® Teacher Leader Workshops (416 attendees, 286 completed evaluations), and 14 FieldSTEM® Educator Workshops (355 attendees, 263 completed evaluations).

Selected summary data from the full evaluation report indicates:

Administrators:

- Overwhelmingly positive about the workshops and the support they received, including in terms of planning for the next school year.
- Agreed or strongly agreed they were more aware of the value of environmental science, integrating careers, and connecting students with the community.
- Most agreed that they felt they better understood their role in supporting student outdoor learning investigations.
- Overall, participants in the Leadership Institutes were committed to supporting implementation of the FieldSTEM® model. Respondents highlighted the importance of school and district level support to implement these practices.
- Agreed that FieldSTEM® builds equitable learning opportunities for students.

Educators:

- Reported very positively about their experience with the FieldSTEM® workshops and felt the workshops contributed to their professional growth.
- Of multiple-choice selections, "*Exposure to relevant examples*" and "*a better understanding of how field investigations will help me address science standards*" were the two most frequently selected positive outcomes.
- Felt the workshops and performance tasks helped them implement both science and math.

- Appreciated hands-on, minds-on learning approach for new online learning tools and outdoor learning experiences.
- Planned to use online learning tools for students such as Peardeck, Jamboard and Google slides

9. **Major challenges faced by the program:**

Using online learning platforms for what is typically a hands-on, place-based learning activity continues to be a challenge. Workshops filled with a waiting list, so PEI was not able to serve all educators interested in participating. FieldSTEM® remains in great demand across the state.

10. **Future opportunities:**

PEI has expanded its staff to seven FieldSTEM® coordinators, from five last year. Online workshops have expanded PEI's reach, and interest in career connected learning through PEI is growing.

11. **Statutory and/or budget language:**

ESSB 5092, Sec. 1518 (12)(e) \$500,000 of the general fund—state appropriation for fiscal year 2020 and \$500,000 of the general fund—state appropriation for fiscal year 2021 are provided solely for the Office of the Superintendent of Public Instruction to contract with a qualified 501 (c) (3) nonprofit community-based organization physically located in Washington state that has at least seventeen years of experience collaborating with the Office and school districts statewide to integrate the state learning standards in English language arts, mathematics, and science with FieldSTEM outdoor field studies and project-based and work-based learning opportunities aligned with the environmental, natural resource, and agricultural sectors. The Office may require the recipient of these funds to report the impacts of the recipient's efforts in alignment with the measures of the Washington school improvement framework.

12. **Other relevant information:**

As a result of the trainings administrators and educators are considering:

- Creating a FieldSTEM® Teacher Leader Team to support development and launch of FieldSTEM®
- Taking advantage of PEI's funding sources that allow them to support districts without prohibitive costs
- Integrating the work with PEI into school improvement efforts and existing initiatives
- Moving learning outside

- Integrating many different standards across subject areas through outdoor investigations

13. **Schools/districts receiving assistance:**

See [OSPI's Grantee List](#)

14. **Program Contact Information:**

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