



Washington Office of Superintendent of
PUBLIC INSTRUCTION

*Aerospace/Advanced Manufacturing,
Construction Programs,
Maritime Programs,
Mgmt/Development/Assessment/
Outreach*

1. Purpose:

Funds are provided to support the administration, implementation, evaluation and promotion of Core Plus programs. Grant funds are provided to schools for annual startup, expansion, or maintenance of core plus programs. Funds are also provided for OSPI to work in consultation with an industry based advisory committee to evaluate and promote Core Plus programs, and to support sector-specific contracts aimed to expand Core Plus.

2. Description of services provided:

Grants are provided to school districts and skill centers, funding annual start-up or expansion of aerospace/advanced manufacturing, construction and maritime programs, and professional development for instructors leading these programs. Participating schools and skill centers must agree to offer Core Plus aligned aerospace/advanced manufacturing, construction, and maritime programs. Contract funding with sector-specific entities is focused on expanding sector-specific employer engagement programs, increasing student work placement opportunities, validating credentials necessary for direct employment, and providing professional development to support schools, teachers, and students. Contract funding is also provided to support statewide promotional efforts in a consistent manner.

3. Criteria for receiving services and/or grants:

Participating schools and skill centers must agree to offer an aerospace/advanced manufacturing, construction, and maritime training program. Participating instructors

must attend a minimum of 20 hours Core Plus aligned professional development opportunities scheduled throughout the year. Active programs are required to have students compete in regional or state level skills competitions that support continual development and application of the knowledge, skills and abilities being developed through the advanced manufacturing program of study. Grantees may use funds for the following related activities:

- Develop knowledge, skills, and abilities necessary for consistency and rigor of secondary career and technical education in support of aerospace/advanced manufacturing, construction, and maritime career pathways.
- Prepare students for direct industry employment upon graduation, in the aerospace/advanced manufacturing, construction, and maritime trades industries through use of the Core Plus Student Certificate.
- Expand access to and awareness of the vast opportunities offered in of aerospace/advanced manufacturing, construction, and maritime careers.
- Create an aerospace/advanced manufacturing, construction, and maritime pipeline to employment, which utilizes an organized program of study.
- Provide professional development for instructors to better deliver aerospace/advanced manufacturing, construction and maritime trades instruction in high school and skill center programs across the state.
- Provide funds to defray the costs of consumables, materials and equipment, and other necessary aspects of the Core Plus aerospace/advanced manufacturing, construction, and maritime program of study

Beneficiaries in 2021-22 School Year:

Number of School Districts:	N/A
Number of Schools:	54
Number of Students:	N/A
Number of Educators:	N/A
Other:	N/A

Number of OSPI staff associated with this funding (FTEs): 0

Number of contractors/other staff associated with this funding: 7

FY22 Funding:	State Appropriation:	\$2,127,000
	Federal Appropriation:	\$0
	Other Fund Sources:	\$0
	TOTAL (FY22)	\$2,127,000

4. Are federal or other funds contingent on state funding?
No

5. State funding history:

AG1 Aerospace/Advanced Manufacturing

Fiscal Year	Amount Funded	Actual Expenditures
2022	\$900,000	\$874,872
2021	\$900,000	\$809,204
2020	\$900,000	\$839,669
2019	\$450,000	\$442,084
2018	\$450,000	\$335,290

AH1 Construction Programs

Fiscal Year	Amount Funded	Actual Expenditures
2022	\$350,000	\$349,664
2021	\$150,000	\$142,305
2020	\$150,000	\$150,000

AJ1 Maritime Programs

Fiscal Year	Amount Funded	Actual Expenditures
2022	\$350,000	\$337,752
2021	\$300,000	\$299,249
2020	\$300,000	\$290,000

AP1 Mgmt/Development/Assessment/Outreach

Fiscal Year	Amount Funded	Actual Expenditures
2022	\$527,000	\$299,574
2021	\$427,000	\$416,617
2020	\$427,000	\$424,153

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

Fiscal Year	Number of Schools
FY 22	54
FY 21	56
FY 20	68

7. Programmatic changes since inception (if any):

Core Plus grants initially started with Aerospace and Advanced Manufacturing specific funding in 2013. This is the third year of sector expansion with the addition of Core Plus Construction and Core Plus Maritime, previously those were managed

through separate provisos and separate grants, they are now combined and reported through this proviso and three grants.

8. Evaluations of program/major findings:

Core Plus as a career and technical educational program, is expanding rapidly across the state even with the setbacks that have been incurred from COVID-19. Local Educational Authorities (LEA) have continued to adopt and offer aerospace/advanced manufacturing, construction, and maritime programs for their schools. These programs have allowed greater access to industry recognized certifications and CTE pathways to graduation.

Core Plus aligned frameworks now offer 10 statewide equivalencies to allow students to access multiple disciplines within one course. This includes options in third year math, science, English language arts, third year math and science, English and science, English and 3rd year math, and English third year math and science.

Standardized surveying has been used to help evaluate program alignment to industry and identify the need for partnership levels. This allows Core Plus programs to monitor and assess programs so that they may build supports for each level of engagement.

9. Major challenges faced by the program:

Coming out of COVID-19 this last school year added new challenges for programs teaching hands-on technical skills. Many programs had students accessing experiential learning for the first time as well as reteaching skills lost from lack of practice. Although students were able to continue learning about aerospace/advanced manufacturing, construction, and maritime industries through online/distance learning, skill development opportunities students needed to complete the requirements to earn the Core Plus certificate were inadequate. This industry recognized certificate is a new concept for many educators as well as business and industry hiring representatives. LEA travel restrictions also created barriers for instructors to attend the required professional development opportunities and many of those meetings had to be held virtually. A challenge to overcome will be providing professional development and industry outreach regarding use and acceptance of this student certificate as a skill assessment and employment-screening tool.

Lastly, developing new industry relationships and growing industry supported programs in rural communities will be a continued challenge and area of focus for all Core Plus sectors.

10. Future opportunities:

The Core Plus aerospace/advanced manufacturing, construction, and maritime programs continue to be adopted as a model for career and technical education programs. There has been increased interest in the program from a variety of aerospace/advanced manufacturing, construction, and maritime employers recognizing the ever-growing need as demand for skilled labor continues to increase. Businesses are providing greater access to guest speakers, field trips, guest educators in the classroom and teacher and counselor externships, as well as providing input and validating curriculum for the expansion of Core Plus programs of study. Further development and refinement of the Student Certificate will ensure that all students who are in a recognized Core Plus aerospace/advanced manufacturing, construction, and maritime program have priority interview or employment status with partners in aerospace/advanced manufacturing, construction, and maritime industries throughout the state. Core Plus is also exploring electronic badging as a way for students to complete badges that represent key competencies and can lead to alignment to direct employment, apprenticeship and post-secondary options for students.

11. Statutory and/or budget language:

ESSB 5693, Sec. 522 (2)(d) - \$2,127,000 of the general fund—state appropriation for fiscal year 2022 and \$2,127,000 of the general fund—state appropriation for fiscal year 2023 are provided solely for annual startup, expansion, or maintenance of core plus programs in maritime, construction, and aerospace and advanced manufacturing programs. To be eligible for funding to start up, maintain, or expand programs under (i) through (iii) of this subsection (d), the skills center and high schools must be selected through a competitive grant process administered by the office of the superintendent of public instruction in consultation with the advisory committee established in (vi) of this subsection (d). The office and the education research and data center shall report annually student participation and long-term outcome data. Within the amounts provided in this subsection:

- (i) \$900,000 of the general fund—state appropriation for fiscal year 2022 and \$900,000 of the general fund—state appropriation for fiscal year 2023 are provided solely for grants for the annual startup, expansion, or maintenance of core plus programs in aerospace and advanced manufacturing programs.
- (ii) \$350,000 of the general fund—state appropriation for fiscal year 2022 and \$350,000 of the general fund—state appropriation for fiscal year 2023 are provided solely for grants for the annual startup, expansion, or maintenance of core plus programs in construction programs.
- (iii) \$350,000 of the general fund—state appropriation for fiscal year 2022 and \$350,000 of the general fund—state appropriation for fiscal year 2023 are

- provided solely for grants for the annual startup, expansion, or maintenance of core plus programs in maritime programs.
- (iv) For (i) through (iii) of this subsection (d), when the grant demand does not align with the specified allocation, the superintendent may allocate funding toward sector areas that meet criteria based on agreement from industry sector representatives.
 - (v) \$527,000 of the general fund—state appropriation for fiscal year 2022 and \$527,000 of the general fund—state appropriation for fiscal year 2023 are provided solely for the office to administer, evaluate, and promote programs under (i) through (iii) of this subsection (d) based on industry sector recommendations, including contracts with sector-specific entities to expand sector-specific employer engagement programs, increase work placement opportunities, validate credentials necessary for direct employment, and provide professional development to support schools, teachers, and students. The office may also contract with an entity with experience promoting core plus programming across industry sectors and education providers to expand awareness and adoption of core plus programs. (vi) The office shall convene and manage an advisory committee of industry sector leadership from the core plus program areas and a representative from a statewide business and manufacturing association to inform the administration and continual improvement of core plus programs, including grant determinations, reviewing data and outcomes, recommending program improvements, and ensuring the use of qualified contractors. The committee will advise the superintendent on appropriate credentials, industry-based competencies, and programs of study for high-demand sectors represented in these program areas.

12. **Other relevant information:**

OSPI created Core Plus Project Coordinator position in 2019 to promote, monitor, and manage the Core Plus program development and professional development, track grant awards, conduct data collection, cultivate industry buy-in and necessary employer engagement activities, and build systems for strategic expansion. This position has now been combined with a career and technical education program supervisor position to support Core Plus programs as of March, 2022.

All three sector leaders of Core Plus (Aerospace, Construction and Maritime), continue to meet regularly to unify systems and body of work to make it easier for schools to adopt one or more Core Plus Programs. Professional development opportunities are regularly provided by OSPI, Core Plus Sectors, and other industry partners such as the Association of General Contractors (AGC) Education Foundation, Boeing, Manufacturing Industry Council (MIC), Lakeside Industries, SafeBoats, Woolridge Boats and AJAC. Several of the Core programs offer OSHA 10-Hour

Certification, Forklift Operator Certification, and First aid/CPR Certification. All programs are actively exploring options to gain additional industry-recognized certificates and certification as directed by their local advisory boards.

13. Schools/districts receiving assistance:

See [OSPI's grantee list](#).

14. Program Contact Information:

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