

Aerospace Assembler Program Grants

1. **Purpose:**

The purpose of the Aerospace Assembler Program grants is to:

- Increase the quality and rigor of secondary career and technical education in support of Aerospace and Advanced Manufacturing occupations;
- Develop knowledge, skills, and abilities necessary for industry employment in manufacturing sectors;
- Expand access to and awareness of the opportunities offered by high quality career and technical education;
- Create an aerospace/manufacturing pipeline to employment, which utilizes an organized program of study; and
- Provide for professional development of instructors to better deliver Aerospace/Advanced Manufacturing instruction in high school and skill center programs across the state.

2. **Description of services provided:** These grants to school districts and skill centers provide funding for annual start-up or expansion of Aerospace manufacturing programs, and other high skilled programs as determined by OSPI, or for professional development of such programs. Participating start-up high schools and skill centers must agree to offer the aerospace manufacturing or other high skilled manufacturing based programs to students by spring semester of the 2018-2019 school year.

3. **Criteria for receiving services and/or grants:** Schools must agree to offer an aerospace or advanced manufacturing training program to students by spring semester of the school year 2018-19. Instructors must attend Core Plus 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 in the program of study. These events also serve as a hiring fair, with student competitors receiving job offers at the state level competition from advanced manufacturing companies such as Boeing.

Funding Details by Fiscal Year

Beneficiaries in 2018-19 School Year:

# of School Districts:	23
# of Schools:	27
# of Students:	2,105
Other:	00

of OSPI staff associated with this funding (FTEs): 00

of contractors/other staff associated with this funding: 00

FY19 Funding: State Appropriation: \$450,000

Federal Appropriation: \$0
 Other fund sources: \$0
 TOTAL (FY19) \$450,000

4. Are federal or other funds contingent on state funding? If yes, explain. No.

5. State funding history:

Fiscal Year	Amount Funded	Actual Expenditures
FY19	\$450,000	\$442,084
FY18	\$450,000	\$335,290
FY17	\$450,000	\$364,426
FY16	\$450,000	\$360,603
FY15	\$450,000	\$395,528
FY14	\$450,000	\$368,847
FY13	\$450,000	\$357,496

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

Fiscal Year	# of Districts	# of Schools	# of Skill Centers	# of students
FY19	23	27	5	2,105
FY18	21	25	3	1,825
FY17	6	9	6	863
FY16	6	6	4	633
FY15	6	9	4	422
FY14	12	9	4	410
FY13	12	12	2	588

7. **Programmatic changes since inception (if any):** The legislature changed the allocation amounts in the second year of funding from \$300,000 providing 10 grants worth \$30,000 each to \$150,000 providing 6 grants worth \$25,000 each. In the 16-17 school year the amount of the grants were not specified other than \$300,000 needed to be spent on Skills Center and \$150,000 spent on high school programs. In the 17-18 school year the amount of the grants were combined into a single line item allocating \$450,000.00 for start-up, expansion, and maintenance of Aerospace and Advanced Manufacturing Programs.

8. **Evaluations of program/major findings:** The availability of the Core Plus Aerospace and Advanced Manufacturing curriculum online has increased the usage of components of the program as well as the complete curriculum; this has also facilitated more directed professional development. We continue to see more comprehensive high schools and middle schools adopting components of the Core into a variety of coursework. Requests from outside of the state for access to the Core Plus Curriculum has continued to increase,

as have requests from private schools within the state. There has also been a noticeable uptick in requests for access to the curriculum from employers and other state agencies. School districts where advisory committees have strong industry representation and partnership have provided solid collaboration and guidance on facilities, tools and equipment and professional development. Adoption and use of the Student Certificate that guarantees job interviews for employment and articulation agreements to community and technical colleges. Additionally, the development of Core Plus for Maritime and Construction are well underway.

9. **Major challenges faced by the program:** Lack of funding to allow time and travel related expenses for OSPI program supervisor to adequately promote, monitor, and manage the Core Plus professional development, grant follow up, data collection, and student follow up, and necessary employer engagement activities.
10. **Future opportunities:** The Core Plus program continues to develop as a statewide career and technical education model. There has been increased interest in the program from a variety of manufacturing sector employers in addition to other industries recognizing the value of the Core training as well as interest from aerospace supply chain companies outside the state. More 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.

The further development and refinement of the Student Certificate has ensured that all students who are in a recognized Core Plus aerospace and advanced manufacturing program have priority interview status not only with Boeing and their supply chain manufactures but additional regional and local employers as well. This style of student certificate is a new concept for many educators as well as business and industry-hiring representatives so providing professional development and community outreach activities regarding use and acceptance of this student certificate as a skill assessment and employment-screening tool is imperative.

11. **Statutory and/or Budget language:**
Budget Proviso: ESSB 6032, Sec. 513 (15) - \$450,000 of the general fund—state appropriation for fiscal year 2018 and \$450,000 of the general fund—state appropriation for fiscal year 2019 are provided solely for annual start-up, expansions, or maintenance of existing programs in aerospace and advanced manufacturing programs. To be eligible for funding, the skills center and high schools must agree to engage in developing local business and industry partnerships for oversight and input regarding program components. Program instructors must also agree to participate in professional development leading to student employment, or certification in aerospace or advanced manufacturing industries as determined by the superintendent of public instruction. The Office of the Superintendent of Public Instruction and the education research and data center at the office of financial management shall track student participation and long-term outcome data.
12. **Other relevant information:**

The program continues to evolve as we upgrade and expand the Core Plus curriculum package. The Core curriculum centers around standardized and sustainable manufacturing skills while local districts can chose the Plus portion of the curriculum based on local industry needs. Professional development opportunities are regularly provided by OSPI, Boeing, and other industry partners such as the Manufacturing Industrial Council of Seattle, The Associated General Contractors Education Foundation, Lakeside Industries, SafeBoats, and CAL-Portland Cement. 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. List of schools/districts receiving assistance: See OSPI [website](#).
14. Program Contact Information:
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