September 2017

AEROSPACE ASSEMBLER PROGRAM GRANTS

1. **Purpose:**
   - Increase the quality and rigor of secondary career and technical education in support of Aerospace/Advanced Manufacturing occupations.
   - Develop knowledge, skills, and abilities necessary for industry employment.
   - Expand access to and awareness of the opportunities offered by high quality career and technical education, and
   - Create an aerospace/manufacturing pipeline to employment, which utilizes an organized program of study.
   - Provide for Professional Development of Instructors to better deliver Aerospace/Advanced Manufacturing instruction.

2. **Description of services provided:** Grants to provide funding for annual start-up or expansion of Aerospace manufacturing programs, other high-skilled programs as determined by OSPI or for professional development of such programs. Participating start-up high schools must agree to offer the aerospace manufacturing or other high skilled program to students by spring semester of the 2016-17 school year.

3. **Criteria for receiving services and/or grants:** Participating high school must agree to offer the aerospace assembler training program to students by spring semester of the school year 2016-17. Instructors must attend Core Plus Professional Development Opportunities.

4. Funding details by fiscal year

Fiscal Year 2017

Beneficiaries in 2016-17 School Year:

# of School Districts:	**6**
# of Schools:	**8**
# of Students:	**563**

# of OSPI staff associated with this funding (FTEs):	0
# of contractors/other staff associated with this funding:	0

FY 16 Funding: State Appropriation:	$150,000
Federal Appropriation:	$0
Other fund sources:	$0
TOTAL (FY15)	$150,000

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

6. **First year funded:** 2013

7. **State funding history:**

Fiscal Year	Amount
FY 17	$150,000
FY 16	$150,000
FY 15	$150,000
FY 14	$150,000
FY 13	$300,000

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

Fiscal Year	# of Districts	# of Schools	# of Students
FY 17	6	8	563
FY 16	6	9	433
FY 15	6	6	222
FY 14	6	9	210
FY 13	12	12	488

9. Average and range of funding per beneficiary, 2016-17 school year: $25,000 each

10. Programmatic changes since inception (if any): In 2014 the legislature decreased the appropriation from $300,000 per year (FY 2013) to $150,000 per year.

11. Evaluations of program/major findings: The availability of the completed Core Plus Curriculum and posting where instructor have instant access has increased usage of components and made professional development more directed. We have added in the National Guard as a partner, which have provided additional insight and career awareness of opportunities for our student upon graduation**.** While this report details out the findings from last year cohort of grant recipients, we now have close to 50 active school district participating. We have 47 building where Grant recipients have implemented the Core. We have found that many additional school within and outside of our state have asked and received access to the Core Plus curriculum and it is being implemented in at least 15 additional school without the benefit of additional funding. Areas where advisory committees have reached out to Industry partnership have provided solid collaboration on curriculum, facilities, supplies, equipment and professional development. Included have been the development of local Certificates that guarantee job interviews for employment and articulations agreements to community colleges We continue to see feeder school adopting components of the Core into a variety of coursework as well as the development of Core Plus for Maritime and Construction.

12. Major challenges faced by the program: Lack of funding to compensate for time, travel and planning for OSPI program supervisor to adequately monitor and manage the Core Plus professional development and grant follow up.

13. Future opportunities: The future holds great promise as the partnerships being developed with manufacturing industries is providing greater access to guest speakers, field trips and guest educators in the classrooms as well as providing input and validating curriculum and program. Many of the partners are now providing training to instructors and Boeing continues to lead the way in working independently with grant school instructors on facilities, equipment and supplies as well as one-on-one training. Some of our schools have entered facilities sharing agreements with local community colleges and the Aerospace Joint Apprenticeship Committee (AJAC) where after hours

training is being done in high school building. AJAC provides additional equipment and supplies to those buildings which indirectly benefit students. Expansion of the Core to Maritime and Construction with future plan reaching out to Agriculture Mechanics.

14. **Statutory and/or Budget language:** 2ESHB 2376, Sec. 4-513 (15) $150,000 of the general fund—state appropriation for fiscal year 2016 and $150,000 of the general fund—state appropriation for fiscal year 2017 are provided solely for annual start-up grants to six high schools to implement or expand aerospace manufacturing programs, or other high-skill programs as determined by the superintendent of public instruction or for professional development of such programs. 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.

15. **Other relevant information:** The program continues to evolve as we upgrade and expand the Core+ curriculum package. The Core centers around standardized and sustainable manufacturing skills while local entities can chose the (+) portion of the curriculum based on the industry needs. 3 professional development opportunities were provided outside of the individual Boeing one-on-one sessions. Skills Inc. and Manufacturing Industrial Council of Seattle have proved to be valuable partners in terms of training and extended learning opportunities. Several of our programs offer OSHA 10 hour certification and are working to gain additional industry recognized certificates in addition to universal industrial skills such as applied math, safety, LEAN, hand and power tools, precision measurement and layout.

16. **Contact Information:**

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