Washington Office of Superintendent of **PUBLIC INSTRUCTION**

Controls Programmer Apprenticeships

1. **Purpose:**
Funding is provided to South Kitsap School District to develop a controls programmer apprenticeship; supporting the development of pathways for high school diplomas and post-secondary credentials.

2. **Description of services provided:**
Funding provided to South Kitsap School District was used to provide administrative support and salary and employee benefits for the project director, of West Sound STEM Network; tasked with conducting leadership support meetings, teacher externship coordination, school district pilot and apprenticeship coordination, regional event planning, onsite PLC support for teachers, and grant management. Funds were also used to support the development of the Related Supplemental Instruction (RSI) curriculum required of the apprenticeship program including lessons, assessments, and aligned competencies. Instructional materials and supplies for workshops, as well as subcontracts for curriculum development, and travel costs associated with implementation of the program were services associated with this funding.

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

South Kitsap School district was identified as the sole recipient of the grant funds in the proviso language. As a recipient of the grant, the district was required to submit a project plan, as well as end of year report.

Beneficiaries in 2019-20 School Year:

Number of School Districts:	1
Number of Schools:	68
Number of Students:	137
Number of Educators:	204
Other: West Sound STEM Network	61

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

FY20 Funding: State Appropriation: $350,000
Federal Appropriation: $0

Other fund sources: $0

TOTAL (FY20) $350,000

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

   ☒ No

   ☐ Yes, please explain.

   If state funds are not available, the state will not be eligible...

5. **State funding history:**

Fiscal Year	Amount Funded	Actual Expenditures
FY20	$350,000	$350,000

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

Fiscal Year	Number of School Districts	Number of Schools	Number of Students	Number of Educators	Number of Other
FY20	1	68	137	204	61

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

   This is the first year of funding for this program.

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

   While the South Kitsap School District was directly funded for this work, there were six districts that benefited from activities funded through this project. Those included; South Kitsap, Bremerton, Central Kitsap, Chimacum, Peninsula, and Tacoma. South Kitsap provided funding to the West Sound STEM Network which engaged multiple school districts and project partners in efforts to expand access to Controls Programmer Apprenticeships.

   The 68 schools reflected as beneficiaries were from partner school districts and reflect schools that engaged students in related activities or teachers in professional development. There were 137 students directly involved in a Controls Programmer hands-on or occupational experience, and 204 teachers participated in occupational specific professional development.

   Five employers have been approved as training agents for the state recognized Controls Programmer Apprenticeship, and each have committed to hiring apprentices. These employer partners include Long Building Technologies, Siemens

USA, MacDonald-Miller Facility Solutions, ATS Automation, Inc., and Johnson Controls, Inc.

Postsecondary partners include Renton Technical College, Bates Technical College, Clover Park Technical College, Olympic College, North Seattle College, and South Seattle College. These partners help support postsecondary credential obtainment and supporting additional access to needed RSI for apprentices. Community College professors also took part in the Controls Technology externship.

Other beneficiaries noted in the table above include employer and postsecondary partners, industry partners who serve on the Apprenticeship Committee, the West Sound STEM Network Executive Board Members, and STEM professionals involved in providing professional learning opportunities for teachers.

9. **Major challenges faced by the program:**
The apprenticeship was unable to enroll students in March 2020 as planned due to the remote status of students and teachers due to COVID-19. The project team refocused on engaging both industry professionals and teachers remotely to continue curriculum development, working on revisions to curriculum to address the remote changes, and preparing teachers to begin providing RSI in the Fall of 2020.

10. **Future opportunities:**
The grantee plans to explore Career Connect Washington Intermediary grant opportunities to support these efforts in the future. Expanding pathways and engaging additional students and teachers from additional districts within the West Sound STEM Network is a future goal.

11. **Statutory and/or budget language:**
ESSB 6168, Sec. 520 (22) $350,000 of the general fund—state appropriation for fiscal year 2020 and $350,000 of the general fund—state appropriation for fiscal year 2021 are provided solely for the south Kitsap school district to develop pathways for high school diplomas and post-secondary credentials through controls programmer apprenticeships.

12. **Other relevant information:**
Examples of activities associated with this project include:
- STEM Like ME! classroom opportunity that allowed 39 Klahowya Secondary School students to spend time with two Controls Professionals and participate in a hands-on activity demonstrating air-flow systems.

- 2-day Controls Technology Workshop with 104 educators participating, exploring insulation and heat transfer, physical models of computer processes, and infrared thermometers without lasers as used by industry.
- 2-day Code.org Workshop with 67 educators participating, exploring the fundamentals and use of coding, a major component of computer programming.
- Tech Xpo STEM Café with 20 educators participating, providing a hands-on experience using coding to design electronic tasks.
- Understanding Multiple Pathways to Graduation Roundtable convening Secondary and Post-Secondary educators, and business and legislative representatives to discuss the importance of building and providing permeable pathways with multiple entry points at the high school level.
- Wind Energy Café with Siemens that drew direct connections to the apprenticeship program.
- Six development sessions to revise and complete curriculum plans for teachers delivering RSI in the Controls Programmer Apprenticeship.

13. **Schools/districts receiving assistance:**
    See [OSPI's Grantee List](#)

14. **Program Contact Information:**
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