

## ***Seattle University – Mathematics and Science: Endorsement Academies, PLC’s and Student Improvement***

### **Project co-directors:**

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### **Target audience:**

- 82 teachers and 61 principals in the Puget Sound region.

### **Partners:**

- 1 high-need district: Tukwila (5 teachers, 5 principals)
- 18 other districts: Auburn (4 teachers, 4 principals); Bethel (1 teacher, 1 principal); Carbonado (1 teacher, 1 principal); Eatonville (1 teacher, 1 principal); Enumclaw (2 teachers, 1 principal); Federal Way (1 teacher, 1 principal); Fife (1 teacher, 2 principals); Franklin Pierce (2 teachers, 1 principal); Highline (11 teachers, 7 principals); Kent (1 teacher, 1 principal); Orting (1 teacher, 1 principal); Peninsula (1 teacher, 1 principal); Puyallup (6 teachers, 5 principals); Renton (24 teachers, 14 principals); Seattle (5 teachers, 5 principals); Tacoma (5 teachers, 4 principals); University Place (6 teachers, 2 principals); White River (1 teacher, 1 principal)
- 3 private nonprofit schools in the Seattle Archdiocese system (3 teachers, 3 principals)
- Other partners:
  - Lead partner: Seattle University College of Education
  - Seattle University College of Science and Engineering
  - Puget Sound Educational Service District

### **Description:**

- This project focuses on “endorsement academies” which provide training to K-12 teachers to help them meet the state’s endorsement competencies for biology, middle level mathematics, or secondary mathematics. In addition, it provides Principals with training in differential learning, standards, and content-specific observational strategy. Principals participate in professional learning communities focusing on leading student improvement in mathematics and science.
- Professional development activities include academic year and summer classes and professional learning communities

### **Project evaluation methods:**

- Teachers: transcript reviews, grades in endorsement academy courses, WEST-E scores, classroom observations, professional learning community observations, journal analysis, surveys
- Principals: classroom observations, professional learning community observations, textual analysis of journals
- Students: standardized curriculum-based measures, rubrics for scoring work for attainment of standards, analysis of student grades

### **Significant direct collaboration or synergy with other projects or initiatives:**

- This project has coordinated its efforts closely with the Professional Educational Standards Board’s (PESB) Educator Retooling program, which was established to support teachers seeking endorsements in shortage areas such as mathematics and science. It has also coordinated efforts with the Pierce County Consortium, which exists to support smaller districts in providing learning opportunities.