

BUILDING EQUITY IN AEROSPACE TRAINING (BEAT)

JUNE 2019 – MAY 2022

PURPOSE

Over the three-year period, this project will increase the enrollment of underrepresented (female) students in high school aerospace education courses and Aviation Maintenance Technology programs at Everett Community College.

PARTNERS

Everett Community College
Everett Public Schools
Marysville School District
Mukilteo School District
National Girls Collaborative Project



National Science Foundation

PROJECT GOALS AND STRATEGIES

- Increase educators' knowledge and use of equity-based teaching strategies in the aerospace training pathway**
 - Real world, experiential summer professional development
 - Professional learning community focused on equitable teaching
- Increase the confidence of secondary and post-secondary career counselors, advisors, and other educators in engaging female students in the aerospace pathway**
 - Partner with industry experts
 - Mini-grants to implement outreach projects that activate strategies from the summer institutes
- Reduce the number of female students that opt out of STEM**
 - Utilize software analytics to identify and support young women likely to aspire to aerospace careers
 - Establish liaison at each school to support female students

The Boeing Company predicts the aviation industry will require 189,000 new technicians by 2037 in North America.

PROJECT OUTCOMES

(1) Instructors

- Knowledge of high demand career fields in aerospace
- Knowledge and implementation of instructional strategies for engaging young women
- Partnerships with industry experts
- Participation in professional learning community

(2) Career counselors and advisors

- Knowledge and use of workforce employment data to advise student course and career choices
- Use of outreach support to identify young women interested in aerospace courses and experiences
- Partnerships with industry experts

(3) Students

- Knowledge of aerospace courses and careers
- Participation in aerospace courses and experiences
- Course and career support and guidance by educators and family members
- Access to female role models from aerospace industry