

Through systemic change to teacher preparation programs across Washington, the NextGen STEM Teacher Preparation Project is working to ensure that all students see a path to STEM teaching and to develop a larger, more diverse, and more effective STEM teaching workforce.

Elementary Teachers will need to be:

- ▶ Generalists with strong understanding of STEM and project-based learning, and experienced in STEM outside of the classroom.
- ▶ Advocates for STEM learning in their schools

Middle & High School Teachers will need:

- ▶ Strong content and pedagogical content knowledge in the subject(s) they teach.
- ▶ Research and/or work experiences in at least one aspect of STEM
- ▶ The ability to work across disciplinary boundaries

All Teachers will need to:

- ▶ Understand & connect with diverse students, families, and communities
- ▶ Incorporate Education for Sustainability, Computer Science, and Engineering principles
- ▶ Regularly collaborate with colleagues in the creation of a connected, coherent, STEM program
- ▶ Approach curriculum through inter- or transdisciplinary lenses
- ▶ Incorporate, integrate, & model disciplinary practices, concepts, and specific ideas (3-dimensional teaching)