

LABOR MARKET AND CREDENTIAL DATA DASHBOARD

QUICK START GUIDE

<https://washingtonstem.org/STEMbytheNumbers>

The Labor Market and Credential Dashboard presents Employment Security Department data for projected job openings, required education levels, and wages. The data is presented in two formats: visual (Tableau) and spreadsheet. In this dashboard, “job projections” are those openings that are created when people exit the workforce PLUS new jobs that are created by growth. While this calculation is imperfect, it is the most accurate method for calculating jobs open to new people.

HOW TO USE THE LABOR MARKET AND CREDENTIAL DATA DASHBOARD

Step 1 | Click "Full Screen" in the bottom right-hand corner of the dashboard.

Step 2 | Use the filters on the right-hand side (or at the top in the Data Table view) to sort and narrow down the data.

Step 3 | Click "Revert" in the bottom left-hand corner to reset to default filter selections.

TIPS FOR USE

Focus on a region. In the Data Table view, start by selecting "Regions" in the upper left corner, which populates the list of regions you can select from. Note that selecting All regions does not equal Washington state--regional WDA data is not comprehensive due to suppressed details.

Navigate the tabs. In the "Job Projections - Groups" tab, clicking on a Group label will populate a visualization on the "Job Projections - Detailed" tab that separates out all of the jobs within that group. Clicking on the "Data Table" tab will show the same data in a tabular, sortable format.

Download the data. Filter the data as appropriate for your question. Exit the Full Screen view, click anywhere in the data table, then click "Download" in the bottom right-hand corner. Select "Crosstab," then download the file.

DEFINITIONS

Region: Regions follow Workforce Develop Areas (WDAs).

Occupation groups: As defined by the U.S. Bureau of Labor Statistics (BLS), these are the highest level of Standard Occupational Classification (SOC) code groupings.

Average regional wage: Based on employer surveys, this is the average wage associated with the occupation for that region.

Living wage and family wage: Defined by the [MIT Living Wage Calculator](#), a “living wage” is the wage needed to support one single adult; a “family wage” is the wage needed by one adult to support two adults (one working full-time and one working part-time) and 1 child.

Demand: Describes balance between job openings and job seekers.

STEM literacy: U.S. Office of Management and Budget (OMB) defines STEM occupations as technical jobs in science, technology, engineering, and mathematics. This includes workers who employ significant STEM knowledge and skills in their



jobs and includes the scientists and engineers who further scientific and technological progress through research and development (R&D) activities. There are 184 OMB defined STEM occupations in Washington state. Washington STEM defines STEM Literacy jobs are those in which workers in non-R&D jobs use STEM knowledge and skills to devise or adopt innovations and workers in technologically demanding jobs who need STEM capabilities to accomplish occupational tasks. There are 178 Washington STEM-defined STEM Literacy occupations in Washington state.

Typical credential needed: The Bureau of Labor Statistics (BLS) defined entry-level education needed for the job. In addition to the BLS education categories, we have included apprenticeship as a category. Several occupations do not require apprenticeships as conditions for entry, but advancement in the occupation (and pay scales) may be dependent on formal training through apprenticeship programs. BLS identifies apprenticeship as typical on-the-job training for several occupations. In cases where apprenticeship is identified for an occupation and Washington state has active apprenticeship programs for that occupation through the Department of Labor and Industries (L & I), “apprenticeship” replaces a credential designation.

Work experience needed: The prior work experience needed for the job based primarily on statistics compiled by the BLS.

Typical on-the-job training and work experience in a related occupation: BLS estimates typical on-the-job training (needed to attain the competency in the skills needed in the occupation) and work experience in a related occupation—this information can be used as a supplement to educational criteria to better understand how much preparation outside of school is likely needed.

For more information or questions regarding the platform please contact Jenée Myers Twitchell at jenee@washingtonstem.org

