

Guide to Data Available in Emsi Analyst Tables

This guide provides a list of all data variables available in the Analyst tool and recommended report filter settings. A glossary of Emsi terms can be found at <https://kb.emsidata.com/analyst/glossary/>. The Analyst tool is organized into four datasets (i.e., occupational table, job posting table, program table, industry table), each offering a comprehensive set of variables and options that can be used to customize reports. Customized reports from any of the tables may be requested by submitting a data request to the Office of Assessment and Institutional Effectiveness (OAIE). The data request form is at the bottom of the OAIE website’s home page at (www.fullerton.edu/data/). For questions about submitting a data request, please contact data@fullerton.edu to be connected with an analyst who can help you configure a report to suit your interests.

OCCUPATIONAL TABLE

This table provides information about occupations in the regions, including the number of jobs, workers, earnings, education, demographics, etc.

Recommended filter settings:

All Occupations: Can view all occupations, or limit by specific occupations. Can be used to compare different occupations.

Regions: Recommend using the four counties that CSUF primarily serves (i.e., Los Angeles, Orange County, Riverside, San Bernardino).

Institutions: Can view all institutions or limit by specific institutions. Can be used to compare different institutions regarding student preparation.

Timeframe: 2001 to 2029

Class of Worker: Employees, Self-Employed. Recommend using Employees only.

Variables	Options
Jobs	<p>The number of occupational jobs available. Can be filtered by:</p> <ul style="list-style-type: none"> • Current Year • Start Year (of the chosen timeframe) • End Year (of the chosen timeframe) • All Years (all years within the timeframe, or selected)
Resident Workers	<p>The number of workers residing in the same area they work in. Can be filtered by:</p> <ul style="list-style-type: none"> • Current Year • Start Year (of the chosen timeframe) • End Year (of the chosen timeframe) • All Years (all years within the timeframe, or selected) <p>The difference between workers who reside in the same area that they work and jobs available in the region for the same occupation. For a region in which more workers live than there are jobs in the region, net commuting is negative (i.e., the net result is that workers commute out of the region for work). For a region in which there are more jobs than there are</p>

Variables	Options
	<p>resident workers, net commuting is positive (i.e., the net result is that workers commute into the region for work). Can be filtered by:</p> <ul style="list-style-type: none"> • Net Commuters Current Year • Net Commuters Start Year (of the chosen timeframe) • Net Commuters End Year (of the chosen timeframe)
Hires	<p>The number of hires for the selected timeframe.</p> <ul style="list-style-type: none"> • Current Year • Start Year (of the chosen timeframe) • End Year (of the chosen timeframe) • All Years (all years within the timeframe, or selected)
Separations	<p>Separation is indicated when a job is present in one quarter but is not present in the following quarter. A separation is reported by the Quarterly Workforce Indicators when an individual's Social Security Number that appeared on a company's payroll in the previous quarter is no longer present.</p> <ul style="list-style-type: none"> • Current Year • Start Year (of the chosen timeframe) • End Year (of the chosen timeframe) • All Years (all years within the timeframe, or selected)
Change	<p>The net increase/decrease in regional jobs in an occupation over the selected timeframe. Can be filtered by:</p> <ul style="list-style-type: none"> • Turnover Rate: how often employees in a given occupation are moving to different employers • Jobs Change: number of jobs increases/decreases in the region within the chosen timeframe • % Jobs Change: percentage of jobs increases/decreases in the region within the chosen timeframe
Location Quotient	<p>Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region "unique." Can be filtered by:</p> <ul style="list-style-type: none"> • Current Year • Start Year (of the chosen timeframe) • End Year (of the chosen timeframe) • All Years (all years within the timeframe, or selected)
Openings	<p>The number of jobs available within the chosen timeframe, including new and replacement jobs. Can be filtered by:</p> <ul style="list-style-type: none"> • Openings: a total of new and replacement jobs within a chosen timeframe • Annual Openings: a total of new and replacement jobs that are open annually • Replacement Jobs: number of jobs to be filled by new hires due to existing workers leaving the occupation • Annual Replacement Jobs: number of replacement jobs that open annually • Annual Replacement Rate: percentage of jobs that are classified as replacement
Hourly Earnings	<p>Information about the average and median hourly earnings in the current year only. Can be filtered by:</p> <ul style="list-style-type: none"> • Median Hourly Earnings • Avg. Hourly Earnings

Variables	Options
	<ul style="list-style-type: none"> • Pct.¹ 10 Hourly Earnings • Pct. 25 Hourly Earnings • Pct. 75 Hourly Earnings • Pct. 90 Hourly Earnings • COL Adjusted² Median Hourly Earnings • COL Adjusted Avg. Hourly Earnings • COL Adjusted Pct. 10 Hourly Earnings • COL Adjusted Pct. 25 Hourly Earnings • COL Adjusted Pct. 75 Hourly Earnings • COL Adjusted Pct. 90 Hourly Earnings
Annual Earning	<p>Information about the median annual earnings in the current year only. Can be filtered by:</p> <ul style="list-style-type: none"> • Median Annual Earnings • Pct. 10 Annual Earnings • Pct. 25 Annual Earnings • Pct. 75 Annual Earnings • Pct. 90 Annual Earnings • COL Adjusted Median Annual Earnings • COL Adjusted Pct. 10 Annual Earnings • COL Adjusted Pct. 25 Annual Earnings • COL Adjusted Pct. 75 Annual Earnings • COL Adjusted Pct. 90 Annual Earnings
Historical Hourly Earning	<p>Information about average and median hourly earnings in the past years. Can be filtered by:</p> <ul style="list-style-type: none"> • All Years Median Hourly Earnings • All Years Average Hourly Earnings • All Years Pct. 10 Hourly Earnings • All Years Pct. 25 Hourly Earnings • All Years Pct. 75 Hourly Earnings • All Years Pct. 90 Hourly Earnings
Historical Annual Earning	<p>Information about median annual earnings in the past years.</p> <ul style="list-style-type: none"> • All Years Median Annual Earnings • All Years Pct. 10 Annual Earnings • All Years Pct. 25 Annual Earnings • All Years Pct. 75 Annual Earnings

¹ Pct. stands for Percentile. For example, Pct. 10 Hourly Earnings mean the 10 percentiles of hourly earnings.

² COL Adjustment or Cost of Living Adjustment (also known as COLA) is an increase in income that keeps up with the cost of living.

Variables	Options
	<ul style="list-style-type: none"> • All Years Pct. 90 Annual Earnings
Cost of Living	<p>The cost of living is an indication of the amount of money needed to live in a given region, including the price of food, taxes, housing, etc., and is linked to the wage level in that region.</p> <p>Cost of Living Index (CoLI): The index comes quarterly from C2ER and provides a baseline for understanding how regional costs of living compare to the nation and to each other. For example, an index below 100 means the region has a lower cost of living, whereas above 100 means it is more expensive to live.</p>
Automation Index	<p>The automation index captures an occupation's risk of being affected by automation. For example, an index below 100 means the region has a lower risk of automation, whereas above 100 means there is a higher risk of automation.</p>
Shift Share³	<p>This is a standard method of regional economic analysis that helps identify whether job change in an industry/occupation in a region is due to national factors—the "rising tide lifts all boats" phenomenon—or whether it's due to factors within the region of the study itself. Can be filtered by:</p> <ul style="list-style-type: none"> • Occ. Mix Effect: represents the share of regional industry growth explained by the growth at the national level. • Nat'l Growth Effect: how much of the regional Industry's growth is explained by the overall health of the national economy. • Expected Change: the job growth that is expected in the regional Industry if it followed national trends exactly. • Competitive Effect: explains how much of the change in a given industry is due to some unique competitive advantage that the region possesses.
Education	<p>Provides information about educational level and Experience required, as well as information about on-the-job training, regional completion, and institutional completion.</p> <ul style="list-style-type: none"> • Typical Entry-Level Education: the lowest educational level for the occupation • Work Experience Required: required Experience in years • Typical On-The-Job Training: whether or not the occupation typically provides/offers on-the-job training • Regional Completions: number of regional program completions that prepare alumni for the occupation • Institutional Completions: number of institutional program completions that prepare alumni for the occupation
Demographics	<p>Information about occupational demographics. Can be filtered by:</p> <ul style="list-style-type: none"> • Age: separated into age groups • Age % of Occupation: percentage of age groups in the occupation • Gender: male and female • Gender % of Occupation: percentage of gender in the occupation • Race/Ethnicity: Hispanic or Latino, White, Black or African American, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, Two or More Races • Race/Ethnicity % of Occupation: percentage of each ethnicity in the occupation
Occupation Unemployment	<p>The number of people unemployed in a particular occupation. This is only available by the 2-digit SOC level and County area level or above.</p>

³ To read more about Shift Share, please refer to this document: https://www.economicmodeling.com/wp-content/uploads/2007/10/emsi_understandingshiftshare.pdf

JOB POSTING TABLE

This table provides information about job postings, including the number of postings, fulfillment, and earnings.

Recommended filter settings:

Regions: Recommend using the four counties that CSUF primarily serves (i.e., Los Angeles, Orange County, Riverside, San Bernardino).

Occupations: Choose occupation(s) to view data. Use to compare different occupations.

O*NET Occupations: Search specific occupations by O*NET code.

Job Titles: Search for specific job titles. Use to compare different job titles.

Companies: Search by specific companies. Use to compare data from different companies.

Include Skills & Qualifications: Use to limit results by skill.

Industry Sectors (2-Digit): Search specific industry sectors. Use to compare different sectors.

Minimum Experience Required: The minimum Experience required as specified within the job postings. Not all postings include an experience level; the unspecified postings will not be displayed when this filter is applied. Can be left as "Any" or choose a specific range "Select Range."

Part-Time/Full-Time: Postings associated with either full-time or part-time work. If this is not specified in the posting, it is assumed the posting is for a full-time position. Can be filtered by **Full-time (>32 hours)**, **Part-time (32 hours)**, or **Flexible hours** (Postings that either mention both "full-time" and "part-time" or a range of working hours that spans both categories [e.g., 24-36 hours].)

Job Location: filtered by **Non-Remote** and/or **Remote**

Company Type: Filter companies that hire people to fill in occupations, including **Non-Staffing Companies** and/or **Staffing Companies**.

Keyword Search: Any keywords.

Timeframe: Search by month and year range from 2001 to 2029.

Online Profiles: Show profiles updated since [year].

Variables	Options
Postings	<p>The number of job postings within a chosen timeframe. Can be filtered by:</p> <ul style="list-style-type: none"> • Unique Postings in Timeframe: count of unique job postings after excluding all duplicated posts • Median Posting Duration: the median time of job postings being available • Number of Employers Competing: companies competing for employees • Median Advertised Salary • Unique Start Month • Unique End Month • % Change: Changes in unique active job postings • All Months Unique

Variables	Options
Averages	The average job postings by their uniqueness (unduplicated) and intensity (how many times one job posting is posted and made available online)
Intensity	Intensity is the ratio of total to unique (unduplicated) job postings. A higher than average posting intensity can mean that employers are putting more effort than normal into hiring that position. Can be filtered by month.
Hires	The number of hires for the selected timeframe. When compared with Unique Postings, Hires shows how much actual hiring activity there is relative to the amount of posting activity. Can be filtered by monthly hire in years , as well as start year and end year average monthly hires .
Supply	Online Profiles: Number of profiles of workers in position.
Last Unique Postings	The number of job postings that remained active (Active) or were recently posted (Newly Posted) within a chosen timeframe.
Earnings	The median occupational earnings reported by employees who are currently in the field. Can be filtered by: <ul style="list-style-type: none"> • Median Hourly Earnings • Median Annual Earnings

PROGRAM TABLE

This table provides information about program completions at institutions, including the number of completions at different educational levels, costs and fees, as well as occupations that the program prepares students for.

All Programs: Can be used to filter by a specific program(s) or compare programs.

Regions: Recommend using the four counties that CSUF served majorly (i.e., Los Angeles, Orange County, Riverside, San Bernardino).

Institutions: Can view all institutions or limit by specific institutions. Can be used to compare different institutions regarding the number of completions.

All Institution Sectors: Including **Public**, **Private for-profit**, **Private not-for-profit**, and/or **Other**.

Completions Timeframe: Search completions by year completed, from 2001 to 2019.

Jobs Timeframe: Search number of jobs available by program preparation by year, from 2001 to 2030.

Class of Worker: Employees, Self-Employed. Recommend using Employees only.

Variables	Options
All Completions	The number of completions that can be filtered by: <ul style="list-style-type: none"> • All Program Types • Distance Offered Programs. Including programs offered online and its data. • Non-Distance Offered Programs. Including traditional (in-person) programs and its data. Within each filter, there are further sub-filters for time:

Variables	Options
	<ul style="list-style-type: none"> • Current year completions • Start year completions • End year completions • All years completions (can further be filtered by specific years) • Completions change between two chosen time points • % Completions change between two chosen time points
All certificates	Similar to All Completions
All degrees	Similar to All Completions
Award of less than 1 academic year	Similar to All Completions
Award of at least 1 but less than 2 academic years	Similar to All Completions
Associate's Degree	Similar to All Completions
Bachelor's Degree	Similar to All Completions
Postbaccalaureate certificate	Similar to All Completions
Master's Degree	Similar to All Completions
Post-master's certificate	Similar to All Completions
Doctor's Degree	Similar to All Completions
Tuition	Information about tuition, including in-state, out-of-state, and in-district for Undergraduate and Graduate .
Cost Per Credit Hour	Information about the cost per credit hour, including in-state, out-of-state, and in-district for Undergraduate and Graduate .
Fees	Information about additional fees, including in-state, out-of-state, and in-district for Undergraduate and Graduate .
Room & Board	Information about room and board for On-campus and Off-campus living situation.
Books & Supplies	Information about the most recent reported cost of books and supplies.
Occupation Earnings	<p>Information about in-the-field occupation earnings that alumni who completed the program can earn.</p> <ul style="list-style-type: none"> • Median Hourly Earnings • Avg. Hourly Earnings • Pct. 10 Hourly Earnings • Pct. 25 Hourly Earnings • Pct. 75 Hourly Earnings • Pct. 90 Hourly Earnings
Occupation Estimated Openings	<p>Estimation of job openings by:</p> <ul style="list-style-type: none"> • Openings. Current openings of jobs for a specific program. • Annual openings. The number of jobs that are open each year for a specific program.

Variables	Options
Occupation Jobs	The number of jobs in the field that match with the program (using CIP-to-SOC method ⁴). Can be filtered by Current Year, Start Year, End Year, or All Years of a chosen timeframe.
Occupation Jobs Change	Information about job change within the Jobs Timeframe , including: <ul style="list-style-type: none"> • Jobs change. The number of jobs changes between two-time points. • % jobs change. Percentage of job change between two-time points.

INDUSTRY TABLE

This table provides information about the Industry, including the number of jobs in the Industry, location quotient, demographics, and unemployment.

All Industries: Search by Industry. View specific industrial data or compare between different industries.

Regions: Recommend using the four counties that CSUF served majorly (i.e., Los Angeles, Orange County, Riverside, San Bernardino).

Timeframe: Search the number of job availability in the Industry within a timeframe, from 2001 to 2030.

Class of Worker: Employees, Self-Employed. Recommend using Employees only.

Note: This table can be filtered by Regional, State, or National.

Variables	Options
Jobs	Information about the number of jobs in each Industry in Current Year, Start Year, End Year, or All Years .
Change	Information about the number of Jobs Change and the % Jobs Change within the chosen timeframe in each Industry.
Earnings	Information about earnings in the Industry can be filtered by: <ul style="list-style-type: none"> • Avg. Earnings Per Job • All Years Totals. Can further be filtered by specific years. • Current Wages, Salaries, & Proprietor Earnings. • Current Supplements. Also known as current additional employee benefits. • Wages, Salaries, & Proprietor Earnings. Can further be filtered by specific years. • Supplements. Can further be filtered by specific years.

⁴ The CIP-to-SOC mapping connects educational programs with target occupations, showing potential higher education talent pipelines into occupations. Emsi's CIP-to-SOC mapping is a modified version of the National Center for Education Statistics' CIP-to-SOC mapping.

Variables	Options
Cost of Living	Information about the cost of living can be filtered by: <ul style="list-style-type: none"> • COL Index. • COL Adjusted Total Current Earnings. Cost of Living Index: The index comes quarterly from C2ER and provides a baseline for understanding how regional costs of living compare to the nation and to each other. For example, an index below 100 means the region has a lower cost of living, whereas above 100 means it is more expensive to live.
Location Quotient	The location quotient is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region "unique." Can be filtered by Current Year, Start Year, End Year, or All Years.
Shift Share	This is a standard regional analysis method that attempts to determine how much of regional job growth can be attributed to national trends and how much is due to unique regional factors. Can be filtered by: <ul style="list-style-type: none"> • Occ. Mix Effect • Nat'l Growth Effect • Expected Change • Competitive Effect
Establishments	The number of companies established in the Industry can be filtered by: <ul style="list-style-type: none"> • [The most recent year] Establishments • All Years Totals. Can be further filtered by specific years.
Demographics	Information about industrial demographics. Can be filtered by: <ul style="list-style-type: none"> • Age: separated into age groups • Age % of Industry: percentage of age groups in the Industry • Gender: male and female • Gender % of Industry: percentage of gender in the Industry • Race/Ethnicity: Hispanic or Latino, White, Black or African American, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, Two or More Races • Race/Ethnicity % of Industry: percentage of each ethnicity in the Industry
Monthly Employment	The number of employments in each Industry can be filtered by month in the most two recent years.
Industry Unemployment (2-Digit NAICS⁵)	Number of unemployment in each Industry can be filtered by Current Year or All Years (can be further filtered by specific years.)

⁵ The full list of 2-Digit NAICS can be found on page 16 - 19 in this document: https://www.census.gov/eos/www/naics/2017NAICS/2017_NAICS_Manual.pdf