



Industry Spotlight

Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419)

Sequin Zip Codes



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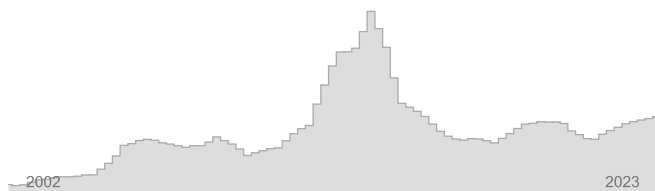
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Spotlight Summary

Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419)
 Seguin Zip Codes – 2023Q1

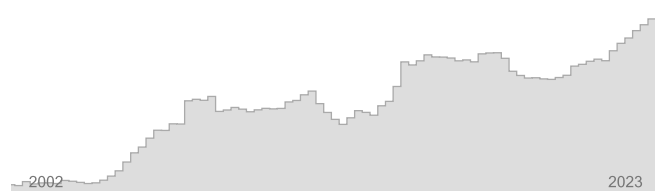
EMPLOYMENT



296

Regional employment / **8,664,798** in the nation

WAGES



\$57,872

Avg Wages per Worker / **\$116,714** in the nation

-3.0% ↓

Avg Ann % Change Last 10 Years / **+3.4%** in the U.S.



1.2%

% of Total Employment / **5.3%** in the U.S.

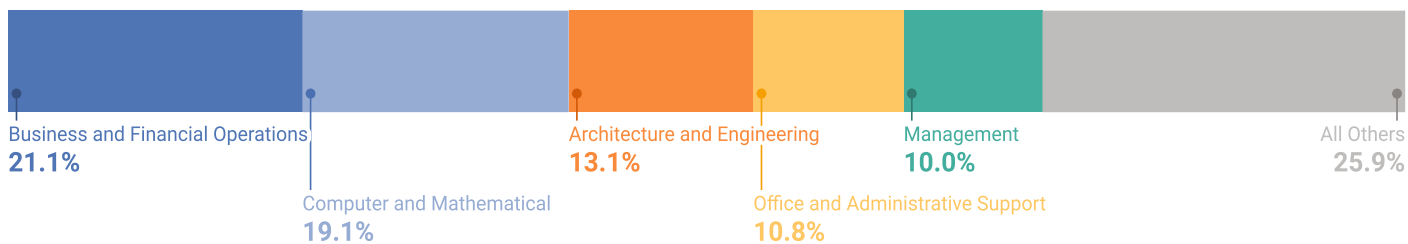


3.1% ↑

Avg Ann % Change Last 10 Years / **+3.3%** in the U.S.



TOP OCCUPATION GROUPS



TOP INDUSTRIES

Avg Ann % Change in Employment, Last 10 Years

5.7% ↑



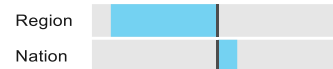
Management, Scientific, and Technical Consulting Services

-1.6% ↓



Other Professional, Scientific, and Technical Services

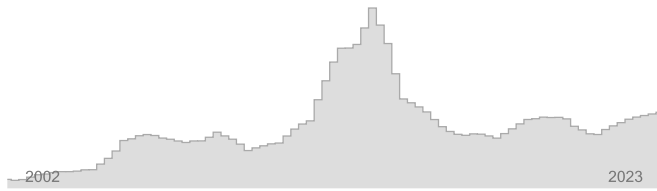
-10.0% ↓



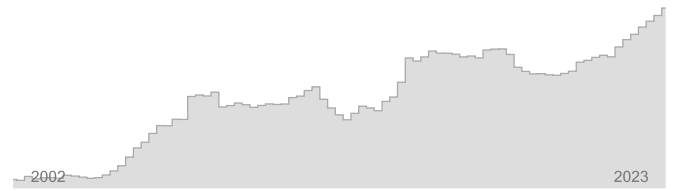
Architectural, Engineering, and Related Services

Industry Snapshot

EMPLOYMENT



WAGES

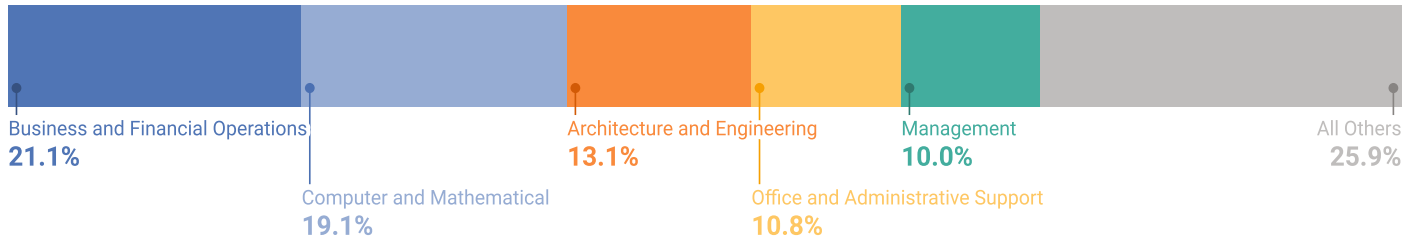


4-Digit Industry	Empl	Avg Ann Wages	LQ	5yr History	Annual Demand	Forecast Ann Growth
Management, Scientific, and Technical Consulting Services	105	\$52,502	0.33		13	3.1%
Other Professional, Scientific, and Technical Services	80	\$44,192	0.44		11	3.3%
Architectural, Engineering, and Related Services	74	\$72,702	0.28		8	2.2%
Computer Systems Design and Related Services	30	\$71,857	0.08		3	3.2%
Scientific Research and Development Services	7	\$75,939	0.05		1	2.9%
Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419)	296	\$57,872	0.23		36	2.9%


Employment is one of the broadest and most timely measures of a region's economy. Fluctuations in the number of jobs shed light on the health of an industry. A growing employment base creates more opportunities for regional residents and helps a region grow its population.

Since wages and salaries generally compose the majority of a household's income, the annual average wages of a region affect its average household income, housing market, quality of life, and other socioeconomic indicators.

Staffing Pattern



6-digit Occupation	Empl	Avg Ann Wages	Annual Demand
Software Developers	25	\$109,600	3
Management Analysts	21	\$92,000	3
Veterinary Technologists and Technicians	15	\$33,100	2
General and Operations Managers	12	\$126,600	2
Business Operations Specialists, All Other	10	\$74,300	1
Photographers	9	\$36,600	1
Veterinarians	9	\$120,500	1
Project Management Specialists	8	\$93,000	1
Architects, Except Landscape and Naval	8	\$87,500	1
Veterinary Assistants and Laboratory Animal Caretakers	7	\$31,700	2
Remaining Component Occupations	143	\$79,600	19
Total	264		

 The mix of occupations points to the ability of a region to support an industry and its flexibility to adapt to future demand. Industry wages are a component of the cost of labor for regional employers.

Employment Distribution by Type

The table below shows the employment mix by ownership type for Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419) for the Seguin Zip Codes. Four of these ownership types — federal, state, and local government and the private sector — together constitute “Covered Employment” (employment covered by the Unemployment Insurance programs of the United States and reported via the Quarterly Census of Employment and Wages).

“Self-Employment” refers to unincorporated self-employment and represents workers whose primary job is self-employment (that is, these data do not include workers whose primary job is a wage-and-salary position that is supplemented with self-employment).



	Empl	%
Private	203	68.6%
Self-Employment	74	25.1%
Local Government	19	6.3%
Other Non-Covered	0	0.0%



Source: JobsEQ®

 Strong entrepreneurial activity is indicative of growing industries. Using self-employment as a proxy for entrepreneurs, a higher share of self-employed individuals within a regional industry points to future growth.

Postsecondary Programs Linked to Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419)

Program	Awards
Texas Lutheran University	
Accounting	11
Business Administration and Management, General	62
Business Statistics	7
Chemistry, General	8
Computer Science	5
Engineering Physics/Applied Physics	4
Management Information Systems, General	4
Sociology, General	14
Spanish Language and Literature	5
Speech Communication and Rhetoric	10

Source: [JobsEQ®](#)

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 The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.
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 Among postsecondary programs at schools located in the Seguin Zip Codes, the sampling above identifies those most linked to occupations relevant to Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419). For a complete list see JobsEQ®, <http://www.chmuraecon.com/jobseq>

Seguin Zip Codes Regional Map



Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2023Q1 and are based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Occupation employment is as of 2023Q1 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data. Wages by occupation are as of 2023, utilizing BLS OEWS data and imputed by Chmura.
- GDP is derived from BEA data and imputations by Chmura. Productivity (output per worker) is calculated by Chmura using industry employment and wages as well as GDP and BLS output data. Supply chain modeling including purchases by industry are developed by Chmura.
- Postsecondary awards are per the NCES and are for the 2020-2021 academic year.
- Establishment counts are per the BLS QCEW data.
- Figures may not sum due to rounding.

Industry Definition

Scientific Research and Development Services Industry Profile (NAICS: 5413, 5415, 5416, 5417, 5419) is defined as the following NAICS industries:

Code	Description
5413	Architectural, Engineering, and Related Services
5415	Computer Systems Design and Related Services
5416	Management, Scientific, and Technical Consulting Services
5417	Scientific Research and Development Services
5419	Other Professional, Scientific, and Technical Services

Region Definition

Sequin Zip Codes is defined as the following zip code tabulation areas:

ZCTA 78155

ZCTA 78123

FAQ

What is (LQ) location quotient?

Location quotient is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is annual demand?

Annual demand is a of the sum of the annual projected growth demand and separation demand. Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. Growth demand is the increase or decrease of jobs expected due to expansion or contraction of the overall number of jobs.

What is the difference between industry wages and occupation wages?

Industry wages and occupation wages are estimated via separate data sets, often the time periods being reported do not align, and wages are defined slightly differently in the two systems (for example, certain bonuses are included in the industry wages but not the occupation wages). It is therefore common that estimates of the average industry wages and average occupation wages in a region do not match exactly.