



Alberta Professional, Scientific and Technical Services

Industry Profile 2020

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Email: lbr.lfsanalyst@gov.ab.ca

In Edmonton: 780.422.4266

Long distance: 1.800.661.3753

This publication is available online at: <https://www.alberta.ca/job-market-trends-profiles.aspx>

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Overview

The 2020 Industry Profile for the Professional, Scientific and Technical Services industry provides statistics and trends in the labour market for this sector in Alberta. Topics include employment, unemployment, number of businesses, occupation, wages and demographics. All statistics provided are 12-month averages for the year. The statistics are from Statistics Canada's Labour Force Survey and the Alberta Wage and Salary Survey.

The Professional, Scientific and Technical Services industry¹ in Alberta includes enterprises that make knowledge and skills available to other organizations or to the public, often on a project basis. For example, they may provide:

- legal services and accounting and related services
- architectural, engineering and related services
- surveying and mapping services
- graphic, industrial or computer systems design services
- management, scientific and technical consulting services, research and development services
- advertising, public relations or market research services
- translation services
- veterinary services

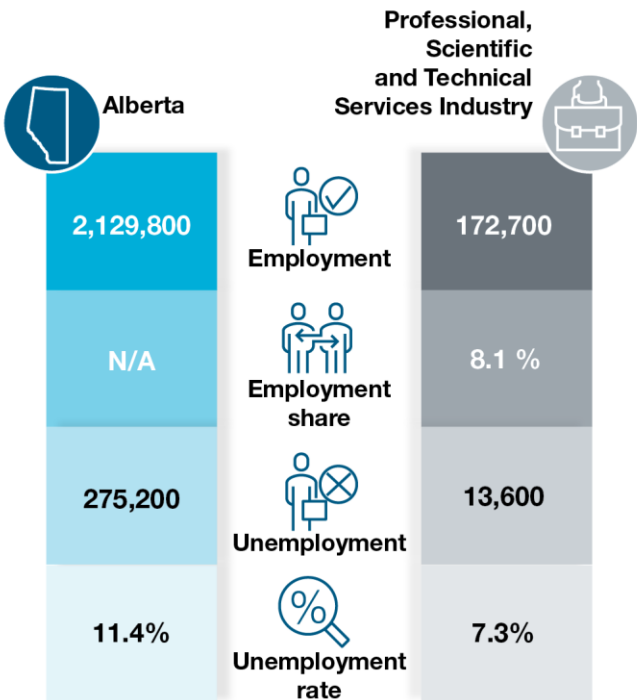
For more information, please see [Statistics Canada North American Industry Classifications System \(NAICS\) Canada 2017](#) for descriptions of industries.

¹ North American Industry Classification System (NAICS) 2017 major group 54

Section A: Business Environment

1. Employment and Unemployment

FIGURE 1: EMPLOYMENT AND UNEMPLOYMENT



Data Source: Statistics Canada, Labour Force Survey, Table: 14-10-0023-01 (formerly CANSIM 282-0008), 2020

Note: N/A denotes not applicable. Employment share is obtained by dividing the number of employment in this industry by total employment in Alberta.

For more information on employment numbers or for a historical comparison, please go to [Labour Force Statistics](#) or [Statistics Canada](#).

2. Industry Growth

- The Professional, Scientific and Technical Services industry accounted for 8.1% of total employment in Alberta in 2020, a 0.3 percentage point increase from 2019.
- Employment in this industry is expected to increase at an average rate of 1.1% from 2020 to 2023.²
- The industry is expected to account for 7.8% of total employment in Alberta in 2021.
- The above projections were completed prior to the economic decline associated with the COVID-19 pandemic and therefore may not capture labour conditions in the short term. However, the projections are expected to reflect long-term expectations of employment trends.

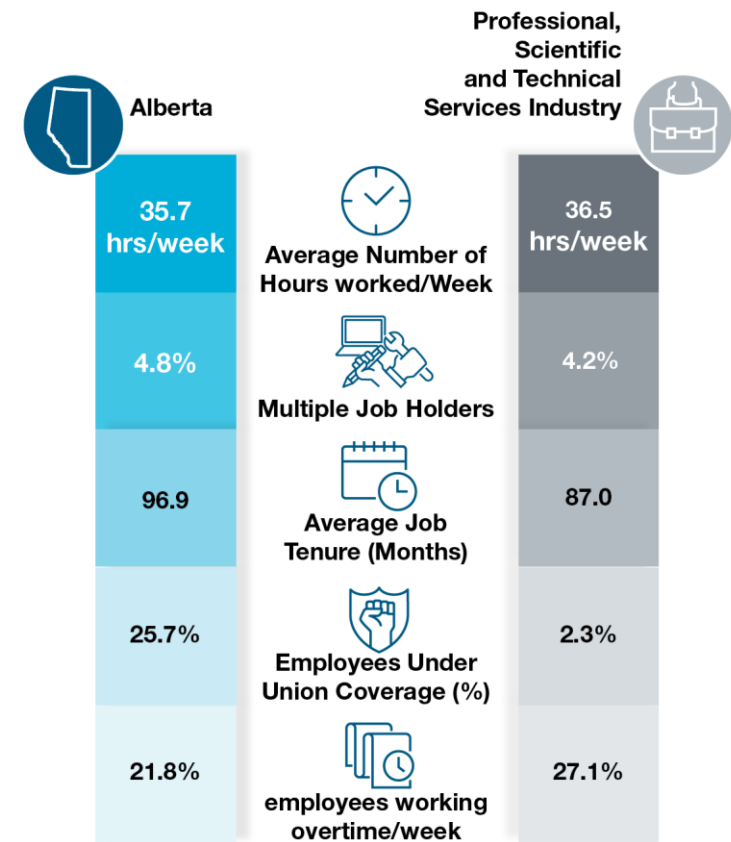
² Alberta Modified Canadian Occupational Projection System (COPS) Outlook 2019 – 2023, Industry Employment Outlook

3. Facts, Trends and Outlook

According to the most recent Statistics Canada's National Economic Accounts, the Professional, Scientific and Technical Services industry accounted for approximately 4.8% of Alberta's Gross Domestic Product (GDP) in 2020, a decline from 5.7% in 2010. Between 2010 and 2020, this industry's contribution to Alberta's total employment decreased from 7.4% to 8.1%.

Total employment in the Professional, Scientific and Technical Services industry (the total number of employees and self-employed people 15 years and over) in 2020 was 2.9% lower than its level in 2019. Over the last 10 years, employment in this industry increased by 23,900, a 16.1% increase. There were 172,700 people employed in the industry in 2020, of whom 85.4% were full-time and 14.6% were part-time.

FIGURE 2: LABOUR MARKET CHARACTERISTICS

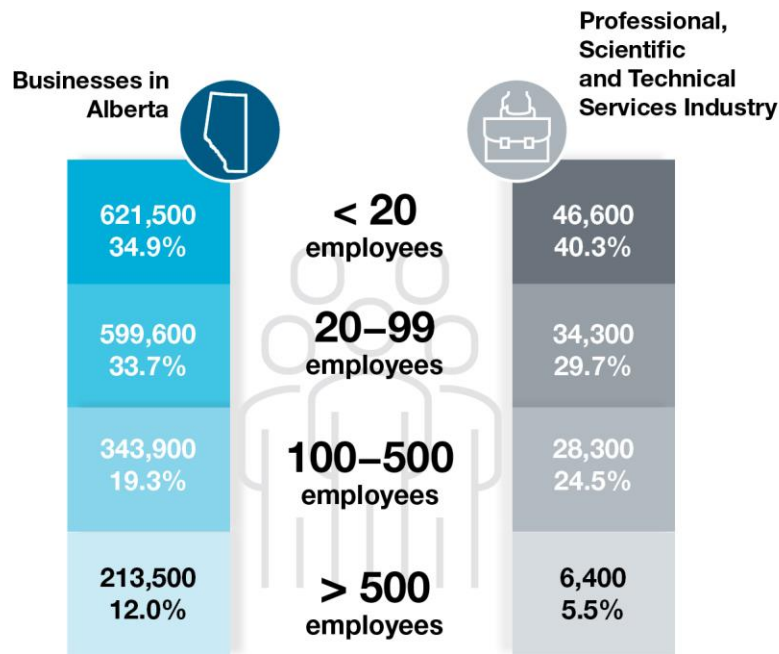


Data Source: Statistics Canada, Labour Force Survey, CANSIM Tables 14-10-0037-01 (formerly: CANSIM 282-0022), 14-10-0044-01 (formerly CANSIM 282-0031), 14-10-0055-01 (formerly CANSIM 282-0042), 14-10-0070-01 (formerly CANSIM 282-0078) and 14-10-0076-01 (formerly CANSIM 282-0084), 2020

Note: The percentage of multiple jobholders is obtained by dividing the number of multiple jobholders by total employment. This calculation method also applies to the percentage of employees under union coverage and the percentage of employees working overtime per week.

4. Size of Businesses by industry

FIGURE 3: EMPLOYMENT BY ESTABLISHMENT SIZE

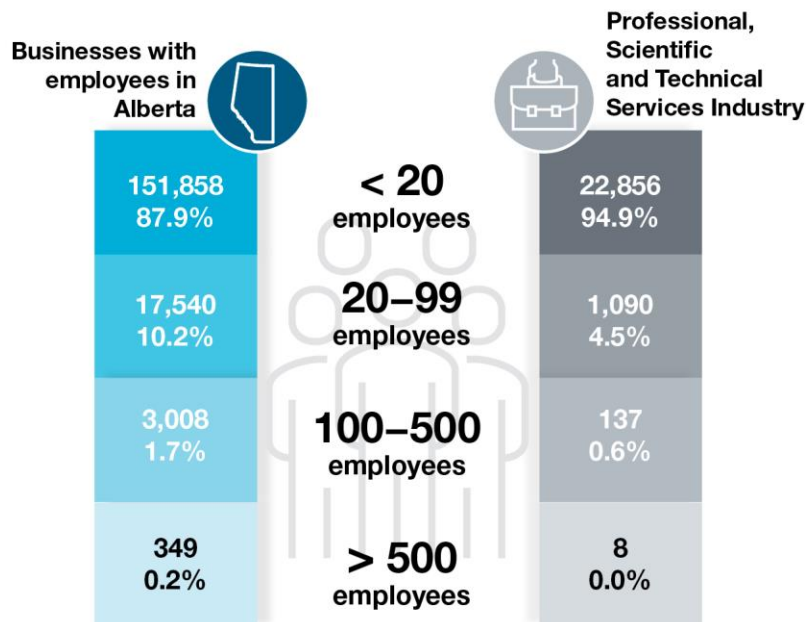


Data Source: Statistics Canada. Table: 14-10-0068-01 (formerly CANSIM 282-0076), 2020

*Percentages may not add up to 100 due to rounding

Note: Statistics Canada's survey methodology for determining establishment size differs from the one it uses in the Labour Force Survey to determine total employment. As a result, the total number of employees by establishment size will not be the same as total employment in the industry, except by coincidence.

FIGURE 4: CANADIAN BUSINESS COUNTS, WITH EMPLOYEES



Data Source: Statistics Canada. Table: 33-10-0304-01, 2020.

*Percentages may not add up to 100 due to rounding

Employment by establishment size is based on the Labour Force Survey and provides the number of employees by establishment size. Canadian business counts is compiled from the Business Register and provides counts of active business establishments by employment size ranges.

Section B: Human Resources Profile

1. Occupation Information

Some examples of occupations in the Professional, Scientific and Technical Services industry include:

- accountant
- architect
- civil engineer
- graphic designer
- lawyer

For a complete listing of all occupations related to this industry, as well as detailed information on education and skill requirements, visit the [Alberta Occupational Profiles](#) webpage.

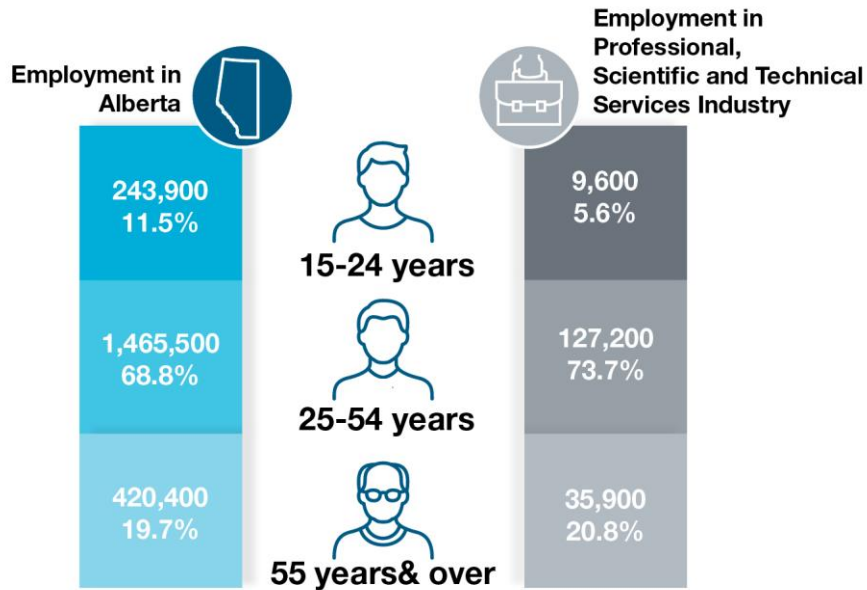
2. Demographics: Gender and Age

According to the Labour Force Survey, the gender breakdown of Albertans employed in the Professional, Scientific and Technical Services industry in 2020 was as follows:



Overall in Alberta, women accounted for 45.9% and men made up 54.1% of total employment (for all industries) in 2020.

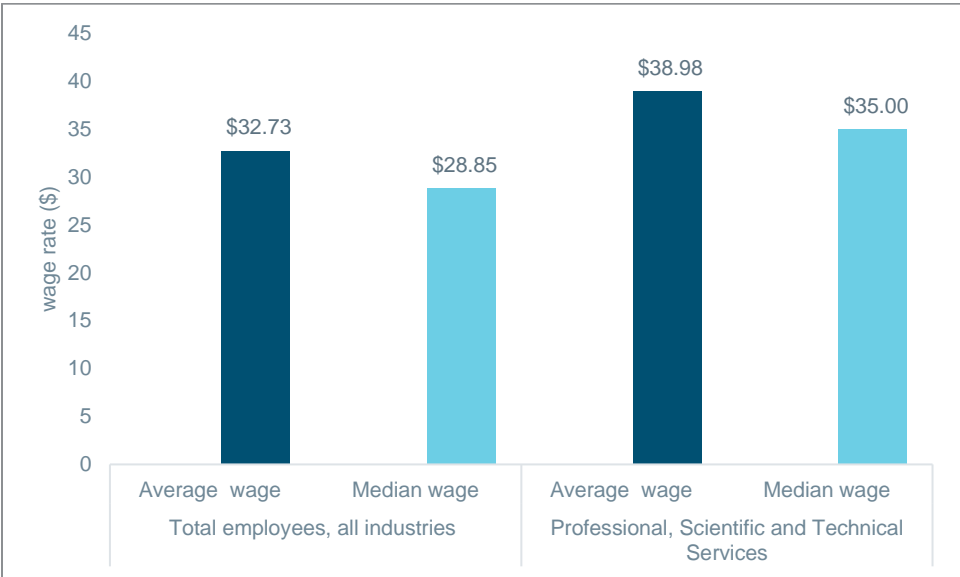
FIGURE 5: EMPLOYMENT BY AGE GROUP



Data Source: Statistics Canada, Labour Force Survey, CANSIM Table: 14-10-0023-01 (formerly CANSIM 282-0008), 2020
*Percentages may not add up 100 due to rounding

3. Wages and Salaries




CHART 1: HOURLY WAGE RATE IN ALBERTA, 2020



Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 14-10-0064-01 (formerly CANSIM 282-0072), 2020
Note: The average hourly wage is obtained by dividing the sum of the wages of all the employees by the total number of employees. The median hourly wage is that wage below which half the employees earn and above which half the employees earn.

4. Wage and Salary Information for Selected Occupations

FIGURE 6: WAGE AND SALARY BY OCCUPATION

	Median Hourly Wage			Average Annual Salary
	Starting	Overall	Top	
 Lawyer	\$35.71	\$70.93	\$112.64	\$139,805
 Graphic designer	\$21.97	\$29.13	\$36.06	\$64,320
 Veterinarian	\$43.00	\$52.88	\$66.31	\$96,771

Data Source: 2019 Alberta Wage and Salary Survey (AWSS). The AWSS is done once every 2 years

Note: Due to methodological changes, a direct comparison of survey results from different years is not recommended.

More information on wages and salaries is available [online](#). For job descriptions, duties, skills and educational requirements of specific occupations in the Professional, Scientific and Technical Services industry, visit the [ALIS](#) website.

Section C: Additional Information

Links to Industry Associations

- [Alberta Association of Architects](#)
- [Alberta Innovates](#)
- [Alberta Land Surveyors' Association](#)
- [Association of Professional Engineers, and Geoscientists of Alberta](#)
- [Law Society of Alberta](#)