

TEMPORARY FOREIGN WORKER PROGRAM
OCCUPATIONAL PROFILE FOR EXPEDITED LABOUR MARKET OPINIONS

MECHANICAL ENGINEERING TECHNOLOGISTS

Section A: Occupational Profile

JOB DESCRIPTION:

Mechanical engineering technologists provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments.

MAIN DUTIES:

Mechanical engineering technologists perform some or all of the following duties:

- Prepare and interpret conventional and computer-assisted design (CAD) engineering designs, drawings, and specifications for machines and components, power transmission systems, process piping, heating, ventilating and air-conditioning systems
- Prepare cost and material estimates, project schedules and reports
- Conduct tests and analyses of machines, components and materials to determine their performance, strength, response to stress and other characteristics
- Design moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Inspect mechanical installations and construction
- Prepare contract and tender documents
- Supervise, monitor and inspect mechanical installations and construction projects
- Prepare standards and schedules and supervise mechanical maintenance programs or operations of mechanical plants.

EMPLOYMENT REQUIREMENTS:

- Completion of a two- or three-year college program in mechanical engineering technology is usually required for mechanical engineering technologists.
- Certification in mechanical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- A period of supervised work experience, usually two years, is required before certification.

PREVAILING WAGE RATES BY SUB-REGION:

ALBERTA

Geographic Area	Wage (per hour)
Calgary/Banff/Drumheller	\$29.43
Edmonton	\$29.07
Fort-McMurray	\$34.63
St. Paul/Lloydminster	\$34.63
Grande Prairie/Slave Lake/Jasper	\$34.03
Lethbridge/Medicine Hat/Crowsnest Pass	\$24.08
Red Deer/Camrose/Wetaskiwin/Rocky/Olds	\$27.14

BRITISH COLUMBIA

Geographic Area	Wage (per hour)
Lower Mainland Southwest	\$25.81
Northern British Columbia	\$27.38
Thompson Okanagan Kootenay	\$24.50
Vancouver Island	\$20.50

PROVINCIAL LABOUR STANDARDS:

In **Alberta** refer to: [Alberta Employment, Immigration and Industry, Employment Standards Programs](#)

In **British Columbia** refer to: [Ministry of Labour and Citizen's Service, Employment Standards Branch](#)

PROVINCIAL CERTIFICATION REQUIREMENTS:

Not Applicable

LABOUR MARKET OPINION FACTORS:

Refer to the [Temporary Foreign Worker Program](#) website to obtain the Labour Market Opinion factors used to assess an employer's request to hire a temporary foreign worker.