



INDUSTRIES

- IT-BPM
- Manufacturing
- Public Administration and Defense
- Compulsory Social Security
- Ownership, Dwellings and Real Estate
- Wholesale and Retail Trade



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Career
Information
Pamphlet
Series of 2022



This Career Information Pamphlet aims to provide relevant and useful information in exploring career options and prospects in various industries considering the current landscape in the world of work.

The CIPs intend to guide job seekers, professionals, researchers, and policymakers on the nature of various jobs, educational requirements, skills and competencies, relevant attributes, employment opportunities, and the cost of training.

Actual requirements may vary based on the hiring institution's/ organization's discretion.



Republic of the Philippines
DEPARTMENT OF LABOR AND EMPLOYMENT
Bureau of Local Employment
Intramuros, Manila

Robotics Engineer



Republic of the Philippines
DEPARTMENT OF LABOR AND EMPLOYMENT
Bureau of Local Employment
Intramuros, Manila





QUALIFICATIONS

Bachelor's Degree in the following fields will be helpful: Mechanical Engineering, Electrical Engineering, Industrial Engineering, or Computer Science for most entry-level positions.

A TESDA course in Robotics is also vital to prepare for a career as a Robotics Engineer.



COMPETENCIES

Knowledge, Skills and Attributes

Technical Skills

A strong foundation in Computer Science, Electrical, Mechanical and Computer Engineer, Technology, Integrative application of IT, Engineering skills for design and construction, and application of ethical practices and standards.

Develop and conduct appropriate experimentation, analyze and interpret data, maximization of engineering judgment to draw conclusions. Design solutions, systems, components, and processes that meet specified needs with appropriate consideration for public health and safety, moral ethics, and the environment.

Soft Skills

Critical thinking, complex problem-solving skills, good judgment and decision-making, application of mathematics, sciences and principles of engineering to solve complex biomedical engineering problems.

COST OF EDUCATION AND TRAINING



Public/State University and College average per semester

By the virtue of Republic Act No. 1093, Free tuition fee is expected for all state universities and colleges.

Private University/College average per semester

Php 30,000 - Php 70,000

Certifications/Training (average)

National Certificate on Mechatronics is one of the basic trainings you can get at TESDA



EMPLOYMENT PROSPECTS

Robotics Engineers usually work in the automotive industry. Besides building robots for vehicle assembly lines, they also work for electronic & food packaging industries, and space & military programs. Robotic Engineers can also work in trade or vocational schools, colleges, or universities to teach classes. However, their usual workplace is usually in a laboratory, manufacturing plant, and in office.

PROSPECTS FOR CAREER ADVANCEMENT

A master's or doctorate degree is recommended to advance in the field of Robotics Engineering in some positions. These graduate degrees are required in order to teach in the field of other high-level research positions. It will take approximately 2 to 3 years in order to obtain a master's degree, while 3 to 5 years for a doctorate degree.



AVERAGE MONTHLY SALARY

ENTRY LEVEL	Php 50,000
MID - LEVEL	Php 60,000
SENIOR LEVEL	Php 75,000