



# 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



# Micro Electronics Engineer



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





## QUALIFICATIONS

Most Micro Electronics Engineers obtain a Bachelor of Science Degree in Electronics Engineering. Like most engineering fields, microelectronics combines skills and knowledge from several engineering fields, so many engineers will find it easy to switch from one related field to another.



## COMPETENCIES

Knowledge, Skills and Attributes

### Technical Skills

Specialized knowledge in technical writing skills and material science, RTL modeling (VHDL or Verilog), simulation tools - Cadence (PKS, NCSIM) / Mentor Graphics (Modelsim) / Synopsys (Design Compiler / PrimeTime), Sensor Development, Micro-Electromechanical Systems (MEMS), and VLSI Devices.

### Soft Skills

Communication skills, critical thinking/ problem-solving skills, organizational skills, ability to work with a team, adaptability, creativity, interpersonal & customer service skills, meticulous, and process-oriented.

## COST OF EDUCATION AND TRAINING



### Public/State University and College average per semester

By virtue of Republic Act 10931, undergraduate students accepted to SUCs are covered for free tuition and other school fees.

### Private University/College average per semester

Php 35,000 - Php 80,000

### Certifications/Training (average)

Php 15,000



## EMPLOYMENT PROSPECTS

Micro Electronic Engineers construct prototypes of new designs, perform specialized tests, and record and interpret data on the performance of new models.

Micro Electronics Engineers spend their time designing small-scale circuits and power supplies, while Power Engineers work on large generators and design infrastructure to supply power to residences and businesses.

## PROSPECTS FOR CAREER ADVANCEMENT

After getting the necessary engineering license, a graduate study is necessary to move up the organizational ladder of Microelectronics Engineering.

In many cases, seasoned Staff Engineers become Micro Electronics Engineer while some started as Research assistants or directors of Manufacturing Operations before acquiring the role of Micro Electronics Engineer.



## AVERAGE MONTHLY SALARY

ENTRY LEVEL	Php 32,000
MID - LEVEL	Php 49,000
SENIOR LEVEL	Php 62,000