



# 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



# Data Engineer



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





## QUALIFICATIONS

Requires a degree-level knowledge of data, computer science, and analytics. A bachelor's degree in Computer Science or IT-related courses is recommended like Computer Science, Information Technology, and Information Systems.



## COMPETENCIES

Knowledge, Skills and Attributes

### Technical Skills

A strong foundation in data analytics with basic understanding of machine learning, IT programming, data warehousing, and knowledge in operating and database systems.

### Soft skills

Critical thinking skills, communication skills, and problem-solving skills.

## 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 30,000.00 – Php 70,000.00

Certifications/Training (average)

Php 15,000



## EMPLOYMENT PROSPECTS

The work of data engineers vary depending on the size of the organization. Generalists often work with small teams, they are responsible for every step of the data process, from management to analysis. Working as a generalist is recommended if you want to transition

from data science to data engineering. On the other hand, data engineers for mid-size companies work alongside data scientists to help make sense of the data they collect. They need in-depth knowledge of distributed systems and computer science. Lastly, larger organizations focus more on managing the flow of data full-time. They mainly focus on analytic databases.

## PROSPECTS FOR CAREER ADVANCEMENT

Data Engineers may also move into managerial roles or become a Data Architect, Solutions Architect, or Machine Learning Engineer.

Advancing your career as a data engineer would require certifications such as CP Data Engineer from Cloudera, IBM Certified Data Engineer, Google Certified Professional, and/or earning a master's or doctorate's degree in computer science or computer engineering.



## AVERAGE MONTHLY SALARY

ENTRY LEVEL	Php 50,000
MID - LEVEL	Php 65,000
SENIOR LEVEL	Php 75,000