

Inhoudsopgave: Datum:

[1 Unit 1: IT job profiles 2](#_Toc161152115)

[1.1 Bit by bit 2](#_Toc161152116)

[1.2 At a crossroads 2](#_Toc161152117)

# Unit 1: IT job profiles

## Bit by bit

Afbeelding met tekst, diagram, Lettertype, schermopname

Automatisch gegenereerde beschrijvingKeywords: (book)

Fields and degrees you need to apply to any of these jobs:

**Fields:**

* Applied Information Technology
* Computer Science
* Computer Engineering

**Degrees:**

* Bachelor’s degree / Bachelor of Science (BSc)
* Associate’s degree (2 years)
* Master of Science (Msc)

## At a crossroads

Table with different situation to greet someone or close your mail:

Afbeelding met tekst, schermopname, Lettertype, nummer

Automatisch gegenereerde beschrijving

Formal ways to greet someone or close your mail:

Afbeelding met tekst, schermopname, Lettertype, nummer

Automatisch gegenereerde beschrijving

Writing polite mails:

* Add **please** to sentences
  + Could you please let me know when the next information session will take place?
* Use ‘**could’** or **‘would like’**
  + I would like to inquire about the price of tickets.
* Avoid **imperatives**, even when adding please
  + Can you please send me more information on this product?

Exchanging information:

* Requesting information
  + I would be grateful if you could …
  + Would you be able to help …?
  + Could you please send me …?
* Replies
  + Thank you for your inquiry/email.
  + Thank you for your interest.
* Attachments
  + Attached please find …
  + Please find attached …
  + I am pleased to send you …
* Giving good news
  + I am delighted to inform you that …
* Giving bad news
  + I regret to tell you that …

Return-on-data:

Afbeelding met tekst, schermopname, Lettertype, nummer

Automatisch gegenereerde beschrijving

Data engineer is the most important job of all IT.

What is a data engineer?

he/she **manages** **and** **organizes** **data** and works it out if there are certain trends or inconsistencies that may have an impact on business goals.

What is big data?

* Big data is the result of **data sets** that are **large** and **complex**, making traditional data processing applications inadequate. Big data presents both challenges and opportunities based on three dimensions:
  + The **volume** or quantity of data
  + The **variety** or range of data types and sources
  + The **velocity** of data These three dimensions are also known as the
    - 3 Rs, i.e. Volume, Variety, Velocity.

Why do companies need a Data Engineer?

Many enterprises in different sectors such as marketing, healthcare, ... collect big data but they often lack the necessary expertise. This is where the Data Engineer comes in: **he effectively manages the overflow of data at a company.**

Meaning of three different words:

[Satori] is a transparent **data proxy** that analyses **queries** for data and builds a comprehensive view of what data you have, where it’s located and how it’s being used and provides tools to enforce security and **privacy policies** on data access.

* Data proxy:
  + Gateway between you and the internet (e.g. Firewall, web filter)
* Data query:
  + Keyword or command you use to look for data (in a DB)
* Privacy policies:
  + (sg. Policy) = guidelines that have been officially agreed upon by a group of people

# Unit 3:

What does a network engineer do?

* Designs, builds, implements & maintains the computer networks organisations or business use: intranet, extranet, phone, LAN, MAN, WAN, GAN
* Maintenance, monitoring, troubleshooting & innovation of these critical systems.
  + Job satisfaction
  + Lifestyle & pay
  + Flexibility
  + Potential for growth
  + Variety of work