IT Security

**Industry Demand of IT Security**

According to The U.S. Bureau of Labor Statistics (BLS), cybersecurity jobs will grow 31% through 2029, which is higher than any other career. In Indonesia, IT Security is also one of the fastest growing jobs since this role is highly demanded in every company, including the government companies. Cybersecurity will continue to grow as technology becomes digitally connected.

Even if nowadays the job market is widely open for IT Security, the skilled labour is still very limited. This is a big opportunity for a fresh-graduate, because the limited resources means a better pay. Thus, being an IT Security is one of the ways to gain more income than any other jobs.

**Salary (Range)**

* Entry level $72,964/year in US
* Mid level $99,815/ year in US
* Entry level Rp150.000.000,00/year in Indonesia
* Mid level Rp300.000.000,00/year in Indonesia

**Core Tasks**

* Help to maintain and update the security of website during the development process until launching
* Keep the data in website secure, by building a protection on website
* Constantly update the security system in website or apps
* Perform regular audits to ensure security practices are compliant
* Carefully finding a bug, any errors or early detection to malicious hacks
* Monitor the security of website, one of them is by tackling any possible threat
* Handling or fixing any security issue
* Constantly update their knowledge related to cybersecurity so they can protect it more

**Working Conditions**

* Typically work in the desk with a computer and constantly coordinating with the teams
* Usually working alongside users, managers, and vendors.
* Constantly check-recheck the system
* Usually working alongside users, managers, and vendors.
* Often work as a part of a team of computer professionals.

**Skills Required**

* Information systems
* Network security
* Cryptography
* Python™
* UNIX
* Information assurance
* Problem-solving
* Attention to detail

**Career progression data**

* Pathways :
  + Earn a bachelor's degree in related fields, especially cybersecurity. However since it is still very limited, students can also take computer science, information technology, criminal justice, business management, or law.
  + Might take a certification to enhance knowledge related to computer coding, networking, cryptography, and cyber vulnerability testing
  + Entry level on Cybersecurity Technician
* Being a Cybersecurity Analyst on mid level
* On Advanced Level, being a Cybersecurity Manager

**Possible University Major**

* Computer Science
* Information Technology
* Criminal justice
* Business management

**School subjects required**

* Computer
* Math