IT Security Engineer Job Description

- Establishing and constructing security standards and best practices that an organization should follow
- Implementing security controls to protect an organization's infrastructure, computer system, and digital files
- Organizing and conducting scans and testing in order to identify vulnerabilities
- Reporting results of scanning or testing and providing security recommendations for further system security enhancement directly to the management
- Preparing and documenting standard operating procedures and protocols
- Ensuring that the organization is aware of security incidents as much as possible, as quickly as possible
- Educating the workforce on information security standards, policies, and best practices
- Conducting penetration testing by simulating an attack on the system to find exploitable weaknesses
- Monitoring networks and systems for security breaches, through the use of software that detect intrusions and abnormal system behavior
- Responding to any security breaches or intrusions that may occur.