



Ministry of Higher Education and Scientific
Research University of Warith Al-Anbiya (BUH)

College of Science



Job Descriptions for College of Science Graduates

Scientific Departments

(Medical Physics, Information Technology, Forensic Science)

For the Academic Year

2026-2025

The **College of Science** serves as the fundamental pillar of innovation and scientific progress in modern societies. Graduates from the departments of **Medical Physics, Information Technology, and Forensic Science** represent the driving force in the fields of healthcare, information security, and criminal justice. These graduates are not merely accumulators of theoretical knowledge; they are highly trained technical and scientific cadres capable of harnessing physical and programming laws to serve humanity and safeguard institutional stability.

In the field of **Medical Physics**, the graduate's role emerges as a vital link between advanced technology and therapeutic protocols. They bear the responsibility of ensuring the highest standards of precision in oncology treatment and radiological diagnosis, while strictly adhering to radiation protection regulations to protect the community.

In the **Information Technology** sector, the graduate represents the digital backbone of organizations. They are responsible for engineering information infrastructures, securing data against escalating cyber threats, and innovating software solutions that enhance institutional performance in the era of digital transformation.

Regarding **Forensic Science**, the graduate constitutes the scientific arm of justice. They give a voice to silent evidence at crime scenes through meticulous laboratory analysis of biological and chemical samples, providing indisputable scientific grounds to uncover the mysteries surrounding crimes and protect social security.

Medical Physics

Job Summary: A Medical Physics graduate is a specialist who integrates the principles of physics with medical sciences for application in the diagnosis and treatment of human diseases. Their primary work is based in hospitals and oncology centers, where they ensure the precision of radiological equipment and the safety of patients and staff from radiation exposure.

Tasks and Responsibilities:

- ❖ **Radiotherapy Planning:** Developing precise treatment plans for oncology patients using Linear Accelerators (LINAC).
- ❖ **Equipment Calibration:** Conducting periodic tests and quality assurance for imaging devices (MRI, CT, X-Ray) to ensure their accuracy.
- ❖ **Radiation Protection:** Monitoring radiation levels within the healthcare facility and ensuring strict compliance with international safety standards.
- ❖ **Medical Image Analysis:** Processing digital images and enhancing their quality to assist physicians in reaching an accurate diagnosis.

Qualifications and Skills:

- ❖ Bachelor's degree in Medical Physics.
- ❖ In-depth knowledge of nuclear and radiation physics and their biological applications.

Forensic Science

Job Summary: A Forensic Scientist is a scientific specialist responsible for examining and analyzing physical evidence recovered from crime scenes using modern scientific methods. Their work aims to provide accurate technical reports that assist the judiciary and security agencies in uncovering the mysteries surrounding crimes.

Tasks and Responsibilities:

- ❖ **Sample Collection and Analysis:** Handling and analyzing biological samples (DNA), fibers, fingerprints, and toxins.
- ❖ **Crime Scene Investigation:** Inspecting the crime scene and documenting physical evidence in a manner that prevents contamination.
- ❖ **Technical Report Preparation:** Drafting detailed laboratory reports explaining the findings derived from scientific analysis.
- ❖ **Document and Ballistics Examination:** Analyzing handwriting, forged documents, and examining firearms and projectiles.

Qualifications and Skills:

- ❖ Bachelor's degree in Forensic Science (or Forensic Chemistry/Biology).
- ❖ High professional integrity and exceptional observational skills.
- ❖ Strong laboratory skills and proficiency in operating complex analytical instruments.

Information Technology (IT)

Job Summary: An IT Specialist is a technical professional dedicated to the design, management, and security of computer systems and networks. They act as a core driver within organizations to ensure efficient data flow, protect information from breaches, and develop software solutions that serve business objectives.

Tasks and Responsibilities:

- ❖ **Network and Systems Management:** Building and maintaining Local Area Networks (LAN) and Wide Area Networks (WAN), and ensuring server stability.
- ❖ **Cybersecurity:** Implementing protection protocols against viruses and intrusions while securing sensitive data.
- ❖ **Technical Support:** Troubleshooting technical issues faced by users and performing software and hardware updates.
- ❖ **Software and Database Development:** Designing and managing databases and developing software applications that meet the organization's needs.

Qualifications and Skills:

- ❖ Bachelor's degree in Information Technology or Computer Science.
- ❖ Proficiency in programming languages and familiarity with various operating systems.
- ❖ High capability in solving complex technical problems (Troubleshooting) and keeping pace with rapid technological developments.