



Yarmouk University

**Hijawi Faculty for  
Engineering Technology**

# Biomedical Engineering Labs

The Department of Biomedical Systems and Informatics Engineering at the Hijawi Faculty for Engineering Technology contains several research labs and devices.



# Biomedical Electronics Lab

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## Lab Overview

Work in the field of biomedical optical electronics using discrete components.

## Devices Available in the Lab

1. Digital oscilloscope
2. Power supply no. 2
3. Waveform generator
4. Soldering station
5. Microscope for SMD soldering

# Biomaterials and Biomechanics Lab

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## Lab Overview

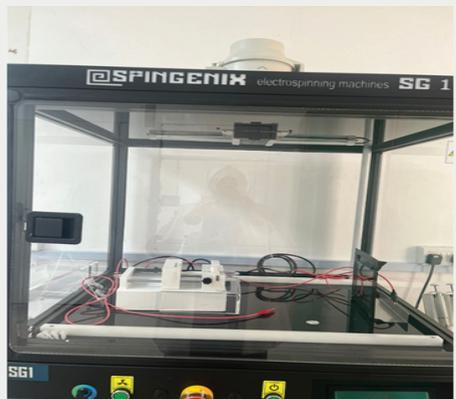
Research related to biomaterials and biomechanics.

## Devices Available in the Lab

- 1- Electrospinning Unit
- 2- 8 EMG & 8 Goniometer wireless system

## Electrospinning Unit

Electrospinning equipment is designed for the fabrication of micro- and nano-scaled fibers by electro-hydrodynamic processing. The electrospinning method uses high voltage to draw a charged thread of polymer solution to produce micro or nano-fibers with diameters ranging from nanometers to micrometers. It consists of high voltage source, syringe pump, and collector.



## 8 EMG & 8 Goniometer wireless system

The system is wireless, portable, and laboratory EMG and Goniometer data capture systems offering full portability and real-time display and analysis options. The system consists of 8 surface EMG sensors, 8 Twin-Axis Goniometers with DataLITE EXPLORE and an ADVANCEData acquisition system. The systems will allow the researchers to measure muscle activities and dynamic joint movement across two planes simultaneously. Wireless systems give the subject total freedom of movement without being constrained by wires or lab.

