|  |  |
| --- | --- |
| **Center of Excellence in Desalination Technology**  King Abdul-Aziz University  P.O. Box : 80200, Jeddah - 21589  Tel: +966 2 6951620  Fax: +966 2 6951619 |  |

**BROCHURE**

**Scanning Electron Microscope LABORATORY**

**Introduction:**

The Scanning Electron Microscope laboratory is established in Center of Excellence in Desalination Technology (CEDT). It is equipped with sophisticated instruments such as FEI Quanta FEG 450 and Coating sample.

**Purpose:**

The Quanta FEG Scanning Electron Microscope (SEM) produces enlarged images of a variety of specimens, achieving magnifications of over 100 000× providing high resolution imaging in a digital format.

**Services:**

* We provide services internally to Ongoing Research projects of CEDT.
* We provide services externally to other Research centers and Departments within KAAU and Industrial sector.

**Cost of services:**

Services are provided by charging fees for analysis depending upon the source of Sample.

**Reports:**

* Results of analysis are provided in the form of printed CD or by e-mails as per the requirement within 2 days.

**Instruments available:**

|  |  |
| --- | --- |
| **Instrument :** | Scanning Electron Microscope (SEM) |
| **Manufacturer:** | FEI Company |
| **Model:** | Quanta FEG 450 |

|  |  |
| --- | --- |
| **Instrument :** | Coating sample with Gold |
| **Manufacturer:** | Quorum technology Ltd. |
| **Model:** | Q15OR ES |

**Tests performed and Cost of analysis:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Test Description** | **Test Equipment** | **Cost of Analysis (SR)** |
|  | Biological samples include screening, imaging and analysis | SEM Instrument | 400 |
|  | Non- biological samples include screening, imaging and analysis | SEM Instrument | 400 |
|  | Coated sample with Gold | Quorum instrument | 150 |