



SESAME

*Synchrotron-light for Experimental Science & Applications in the Middle East*

Vacancy Notice No:	TS/19/03
Position and Grade:	<b>Mechanical Technician (T2 Step I)</b>
Sector:	Technical Sector
Unit/section:	Mechanical Group
Duty Station:	Allan, Jordan
Issue Date:	May 2019
Type/Duration of Appointment:	3 years (first 12 months are probation period).
Benefits:	Health insurance, Life and disability insurance, Rental subsidies, Education grant.
Date for entry on duty:	As soon as possible
Application Deadline:	June 01, 2019
<b>Organization Setting</b>	
<p>SESAME is the first synchrotron light source in the Middle East. It is located in Allan (Jordan). The facility consists of a 20 MeV Microtron, an 800 MeV Booster synchrotron and a 2.5 GeV electron storage ring. Two beamlines, the XAFX/XRF (X-ray absorption fine structure/X-ray fluorescence) spectroscopy and IR (infrared) spectromicroscopy beamlines, are in operation and started to host users in 2018. A third beamline, the MS (Materials Science) beamline, is expected to come on stream in a few months, and a fourth, the MX (Macromolecular Crystallography) beamline, is under construction. Meanwhile, plans are underway for construction of the BEATS (BEAmline for Tomography at SESAME) beamline and HESEB (HEImholtz-SEsame) beamline for soft X-rays. SESAME will therefore permit world-class research in virtually all fields of science. The Centre offers a vibrating and stimulating international environment with great possibility for scientific and technical growth. It is seeking to recruit a motivated Mechanical Technician to support the activities in the Mechanical Engineering Group. SESAME uses state-of-the-art instrumentation, codes and tools to ensure the reliable operation of the three accelerators. The Mechanical Engineering Group plays a vital role in the design and development of new and innovative technical systems that enable world-class applied research to be performed at SESAME.</p>	
<b>Assignment</b>	
<p>Under the supervision of the Technical Director, and in close collaboration with the Mechanical Group, the incumbent will:</p>	

- Produces machined parts by programming, setting up, and operating a computer numerical control (CNC) lathe and mill machines; maintaining quality and safety standards; keeping records; maintaining equipment and supplies.
- Plans machining by studying work orders, blueprints, engineering plans, materials, specifications, orthographic drawings, reference planes, locations of surfaces, and machining parameters; interpreting geometric dimensions and tolerances (GD&T).
- Plans stock inventory by checking stock to determine amount available; anticipating needed stock; placing and expediting orders for stock; verifying receipt of stock.
- Support the installation, commission, and operate mechanical instrumentation to support accelerator and beamline construction and operation.
- Maintain the equipment already existing on the accelerator and beamline. Support designing and installing new equipment.
- Work on mechanical aspects of the scientific instrumentation including: installation of motors and electrical sensors for items such as vacuum, pneumatics, water flow and temperature monitoring.
- General work, including designing and building of simple mechanical devices.
- Assisting SESAME scientists with operation and user experiments.
- Ensure that all mechanical drafting work is carried out in a safe manner, and that the equipment.
- is appropriately integrated and installed.
- Carrying out any other tasks/duties as requested by the line manager and/or SESAME Technical Director.

### **Education and Experience**

- Technical diploma degree.
- Previous experience of work in mechanical workshop and with the operation of CNC machines.
- Working in an environment that requires multi-tasks skills.
- Working in a team but also capable of working independent without direct supervision.
- Work experience in developing products in a high-tech environment.

### **Knowledge, Skills and Abilities**

- Ability to plans machining by studying work orders and to plane stock inventories.
- Ability to learn and support new systems and applications, including support for the operational need of the facility (i.e. manning machine shifts).
- Good skills in using laboratory electrical/mechanical tools for the installation of equipment and performing troubleshooting and repairing if required.
- Excellent communication skills, both oral and written.

- Skills in troubleshooting, diagnostics, and problem-solving.
- Good level of English, reading and writing.
- Available to travel abroad, including periods away from home.
- Available to work occasional shifts during machine development periods.

### **Employment Conditions**

- The candidate would be expected to take up his/her position as soon as possible
- The work location is in Jordan
- The candidate should be willing to travel abroad for training, and to participate in workshops, seminars and meetings.
- The starting salary will be that of a T2 post. Very exceptionally, if the incumbent's qualifications and experience justify this, the Step, and thus starting salary, may be higher.
- The candidate should preferably be a national of a Member of SESAME.
- SESAME is an equal opportunity employer.

### **How to apply**

A detailed C.V. in English and a cover letter should be addressed to the Administrative Director by filling the Online Submission Form on the announcement page.

### **For further Information**

Consult the SESAME web site: [www.sesame.org.io](http://www.sesame.org.io)