



SESAME

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

Vacancy Notice No:	TS/19/02
Position and Grade:	Control Engineer (P1, Step I)
Sector:	Technical Sector
Unit/section:	Control 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
Organization Setting	
<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 Control Engineer to support the activities in the Personal Safety Systems (PSS) and Control Engineering Group. SESAME uses state-of-the-art instrumentation, codes and tools to ensure the reliable operation of the three accelerators.</p>	
Assignment	
<p>Under the supervision of the Technical Director, and in close collaboration with the Control Group, the incumbent will:</p> <ul style="list-style-type: none">• Participate in the planning and preparation of projects involving control systems.• Design and development of software as part of the control system under	

<p>Linux OS platform environment management tools.</p> <ul style="list-style-type: none"> • Design and implementation of new control system GUIs. • Work closely with machine and beamline project teams on defining the requirements and the specification of new control systems. • Report on progress and documentation on work undertaken in all areas on a periodic basis. • Undertake the commission of new control systems. • Provide operational support for the running control systems, in responding to operational faults and requests for development and/or enhancements. • Provide operational support and optimization for the installed Control Systems. • Ability to understand and debug the installed control system problems quickly in order to minimize MTTR • Support the maintenance configuration management and software version control.
<p>Education and Experience</p>
<ul style="list-style-type: none"> • Bachelor's degree in Control/Electrical/Electronic Engineering or Computing. • Two to five years of experience in Control Systems Software/Hardware development. • Ability to program C/C++ and scripting languages, such as MATLAB, Python. • Experience with EPICS and CSS. • Experience with motion control, vision and instrument control hardware and software. • Experience with proper wiring, cabling, testing, and termination techniques of different cables-types • Previous work in a scientific research lab or a synchrotron facility.
<p>Knowledge, Skills and Abilities</p>
<ul style="list-style-type: none"> • Excellent knowledge and Experiences of Linux OS. • Working in an environment that requires multi-tasks skills. • Working in a team but also capable of working independent without direct supervision. • Excellent communication skills, both oral and written. • Skills in organizing resources and establishing priorities. • Ability to learn and support new systems and applications • Knowledge of computer networking and TCP/IP.
<p>Employment Conditions</p>
<ul style="list-style-type: none"> • 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 P1 post. Very exceptionally, if the incumbent's qualifications and experience justify this, the Step, and thus starting salary, may be higher.
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- 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