

## Vacuum Engineer

### Organization

The International Center for Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME) is established in Jordan, under the auspices of UNESCO. Its mission is to promote international collaboration in the Middle East and the Mediterranean region using synchrotron light for basic and applied research in physics, chemistry, biology, materials science, environmental and medical investigations, archaeological studies and other research areas of relevance to the region. The centerpiece of SESAME is an advanced synchrotron light source that is being constructed and to be operated by Member States of SESAME with the support of the international community. SESAME is an international scientific and technological centre of excellence open to all qualified scientists worldwide.

### Technical Background

The accelerator complex of SESAME consists of a 22 MeV Electron Preaccelerator, an 800 MeV Electron Booster Synchrotron, and 2.5 GeV Electron Storage Ring. While the components of the Preaccelerator and the Booster Synchrotron already exist, the 2.5 GeV Storage Ring is completely new. A conceptual design is in place and a detailed technical design is in progress.

One of the most important and critical subsystems is the control system which must allow for a successful operation of the accelerator complex and beamlines experimental stations.

### Assignment

#### I Organizational setting of the post

1. Post grade: P-1
2. Title of the post: Vacuum Engineer (Vacancy notice number Tc/10/2)
3. SESAME Sector Technical Sector
4. Unit/section: Vacuum and Cooling group
5. Duty Station: SESAME site, Allan, Jordan
6. Annual salary range: 20 k – 32 k US\$ (SESAME salaries are tax exempted)
7. Benefits: Health insurance, Life and disability insurance, Rental subsidies, Education grant.
8. Type of contract: Fixed term, 3 years.

#### II Basic purpose and major professional duties and responsibilities

1. In charge of the design calculation, supervision and fabrication of the Front Ends between the accelerator and the Beamlines.
2. Participates in design, supervision and fabrication of Ultra High Vacuum (UHV) chambers and components.
3. Participates in the installation of different accelerator, front ends, and beamlines chambers and components.
4. Participates in maintenance daily work.
5. Collects, analyzes vacuum data and contributes to the preparation of reports and papers.
6. Participates to maintaining awareness about UHV through reading professional journals and Meetings.
7. Any task assigned by technical director or head of group.
8. Report to the head of vacuum and cooling group.

#### III Qualifications required

1. Bachelor in Mechanical engineering, fresh applicants are welcomed.
2. UHV experience is a plus.
3. Proficiency in AutoCAD and 3D drawings.
4. Good command in English, oral communications skills.
5. Professional computer skills.

#### IV Application closing Date

Position will be open until filled with a qualified person.

### Employment Conditions

1. The work provisional starting date is as soon as possible
2. The work location is in Jordan
3. The candidate should be willing to travel abroad to attend training, workshops and seminars.
4. The entry level and salary will be based upon the qualifications, experience and the level of responsibility of the post.
5. In addition to the basic salary the incumbent is entitled to other allowances (installation grant, education grant, housing subsidy, etc.).
6. For more information please consult ([www.sesame.org.jo/jobs/employmentconditions.aspx](http://www.sesame.org.jo/jobs/employmentconditions.aspx))
7. The candidate should ideally be a national of a Member of SESAME.
8. SESAME is an equal opportunity employer

#### **How to apply**

A detailed C.V. in English and a cover letter should be addressed to SESAME Administration , by e-mail to: [sesame.jobs@sesame.org.jo](mailto:sesame.jobs@sesame.org.jo), applicants should write in the Subject Field of their e-mail "Vacuum Engineer - vacancy post Tc/10/2", or by Fax: (+962-5) 3511423.  
For further Information: Consult the SESAME web site: [www.sesame.org.jo](http://www.sesame.org.jo)