Organization Setting

The Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME) has been established in Jordan, under the auspices of UNESCO. Its mission is to promote international collaboration in the Middle East and neighboring countries 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 2.5 GeV synchrotron light source that has been constructed and is operated by the Members of SESAME with the support of the international community. SESAME is an international scientific and technological center of excellence open to all qualified scientists worldwide. Three beamlines (XAFS/XRF, IR and MS) are currently in operation and open to external users. A fourth and fifth beamline (for X-ray tomography and soft X-ray spectroscopy) are under construction and are expected to come into operation in 2022. The infrared beamline IR came into operation in November 2018 with a reliable capacity to serve users of the infrared scientific community. It allows Synchrotron Radiation Fourier Transform Infrared Microspectroscopy (SR-μFTIR), using a Fourier Transform Infrared (FTIR) interferometer. The beamline utilizes the Infrared synchrotron radiation from two main emission sources; the constant field (BM) of the bending magnet and the edge radiation (ER). The IR beamline serves different scientific disciplines such as life science, biomedicine, materials science, archaeology and cultural heritage, as well as, industrial applications.

Assignment

Under the supervision of the Scientific Director and of the Principal Beamline Scientist, and in close collaboration with other Scientific and Technical staff, the main responsibilities of the candidate will be:

- Contribute to user assistance as well to the in house research activities.
- Provide daily high-quality support to external users, by guiding the users in the preparation phase, insuring optimal experimental conditions during the experiment, and if requested offering the analytical help and scientific discussion during the analysis phase.
- Collaborate to further developing the IR experimental station in order to...
accomplish the experimental program.
- Build his/her own research program.
- Involved in submitting proposals to suitable funding agencies, and establish new research collaborations.
- Produce reports and/or documentation (e.g. manuals) to support the beamline users.
- Carrying out any other relevant tasks/duties as requested by the Scientific Director and/or the Principal Beamline Scientist.

**Education and Experience**

- PhD in Physics, Chemistry or related field.
- Proved experience of IR microspectroscopy technique.
- Proved experience with spectroscopic data analysis, including multivariate analysis methods.
- Proved experience with maintaining and operating IR instrumentation and/or sample preparation.
- Experience with synchrotron radiation beamline instrumentation.
- Other complementary SR methods would be an asset.

**Skills and Abilities**

- Available to work in Jordan, and to travel abroad, including periods away from home if needed.
- Excellent knowledge of English (oral and written).
- Self-motivation with high degree of multi-tasking and time management capability.
- Problem solving, effectively and independently through its completion.
- Available to work occasional weekend shifts and out-of-hours working.
- Team spirit, flexible, taking initiatives with good communication skills.

**Remuneration**

Appointment is made by SESAME Director. Normally, IR Beamline Scientist is hired at P2 – Step I level (30 kUSD/year, tax-exempted). Exceptionally, higher Step may be offered based on the candidate’s qualifications and experience.

**How to apply**

A detailed C.V. in English including the name, affiliation and e-mail address of 3 referees, and a motivation letter should be addressed to the Administrative Director by filling the Online Submission Form on the announcement page. Candidates from SESAME Members with equal qualification will be given preference.

**For further Information**

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