



Compass Technology Company Limited

金柏科技有限公司

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Scanning Electron Microscope (SEM) with Energy Dispersive X-ray (EDX) Spectroscopy to Support the Development of Innovative Flexible Substrate Fabrication

Expression of Interest are invited from suppliers who wish to submit a tender

1. Background Information

Scanning Electron Microscope (SEM) with Energy Dispersive X-ray (EDX) Spectroscopy has always been critical equipment for various material characterization and failure analysis. To support a new project that required extensive analysis for material at nano-scale, Compass Technology Co., Ltd. is currently looking for capable vendor to provide the equipment with the related services.

2. Equipment Requirement

The SEM is has to be capable of high resolution imaging and composition analysis with state of the art technology for any type of material. The key requirements are as follow:

SEM	
Gun Column	Field Emission Gun (FEG)
Detector	Secondary Electron, Back-Scattered Electron(in column)
Mode	High vacuum, low vacuum, ESEM
Stage control	Motorized 5-axes:x, y, z, tilt, and rotate
Electron optics	Voltage: 200 V to 30 kV Current: up to 200 nA Magnification: 6 X to more than 2,500,000X IR camera for live sample monitoring
Resolution	1.0 nm @ 30 KV (SE – High vacuum) 2.5 nm@ 30 KV(BSE - High vacuum) 1.3 nm @ 30 KV (SE – Low vacuum) 2.5 nm @ 30 KV (SE – Low vacuum)
EDX	
Detector type	Silicon Drift Detector (SDD)
Window	Si3N4 window with low energy sensitivity and low voltage analysis
Resolution	Min. 127ev for Mn standard
Mode	Point EDX, Area EDX, Color mapping
Software	Fast Phase Mapping, Auto layering, Smart ID and Smart data management

After fulfilling the above requirement, decision will be made based on other relevant additional features and the cost offered.



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3. Key Dates (Tentative)

Tender issue	5/3/2018
Tender return	19/3/2018
Contract award	26/3/2018
Contract completion	29/3/2018

4. Expressions of Interest

In order to be considered for pre-qualification, interested parties having the relevant resources, qualifications, and experiences according to the scope of work are requested to express their interest through email to kelvin_pun@cgth.com on or before 19 March, 2018.

5. Deadline to Return Answers/Information

Upon expression of interest, the suppliers will receive invitation of pre-qualification via email. The supplier shall complete and submit all information and details no later than the specified date on the invitation email.

For enquiries, please contact Mr Kelvin Pun via kelvin_pun@cgth.com