Poste à pourvoir pour 3 ans minimum à Clayton (Australie)
Formation en France et déplacements à prévoir en Australie, Asie, Océanie et éventuellement reste du monde

Key responsibilities

1. Assist in the development and implementation of standard operating procedures and user training programs that ensure the safe, effective and efficient use of the in-situ scanning electron microscope.
2. Provide expert training and supervision to researchers at PhD level and above in the safe, efficient and effective operation of the instruments.
3. Provide high-level expertise, advice and assistance to researchers at PhD level and above undertaking research using the instruments.
4. Acquire and analyse complex data at an advanced level for University and other research projects, as required.
5. Organise and supervise service work and maintain service records.
6. Maintain and develop expert and up-to-date knowledge and understanding of the theory, instrumentation and application of in-situ scanning electron microscopy.
7. Develop new and improved methodologies for using these instruments to meet the needs of researchers using MCEM.
8. Work with MCEM staff to develop and implement operational plans to ensure the efficient delivery of microscopy capabilities.
9. Demonstrate the Newtech /TESCAN systems at Monash to AXT prospective customers from time to time.
10. Provide application support and/or training for AXT and Newtech customers locally and internationally.
11. Collaborate with Newtech/TESCAN on joint publication and potential product development
12. Present at conferences, workshops and other marketing events locally and internationally.

Key selection criteria

Education/Qualifications

1. The appointee will have: A postgraduate qualification or equivalent in a relevant discipline or an equivalent combination of relevant experience and education/training.

Knowledge and Skills

2. Advanced knowledge of theory, techniques and instrumentation needed to undertake in-situ scanning electron microscopy.
3. Expertise in at least one specialist area of scanning electron microscopy, for example, EDXS, EBSD etc
4. Advanced understanding of in-situ scanning electron microscopy instrumentation, its operation, maintenance and optimisation.
5. Advanced understanding and skills in the acquisition and interpretation of in-situ scanning electron microscopy data and application to the solution of complex research problems in the physical sciences.
6. High-level communications skills, both written and verbal, with the ability to liaise effectively with academic/research staff, research students, general/technical staff and external clients.
7. Ability to teach and train researchers across a range of in-situ scanning electron microscopy and analytical techniques available on the instrument.
8. Ability to implement procedural improvements, set priorities and to use initiative in the resolving of issues that are highly complex.
9. High-level analytical, problem-solving and reporting skills.
10. High-level planning and organisational skills, with the ability to work independently, prioritise multiple tasks and set and meet deadlines.
11. Demonstrated ability to work autonomously and collaboratively in a complex matrix environment whilst fostering a culture of focused customer service and continuous improvement.

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