

*Job Summary*

The Associate Research Scientist is responsible for maintaining the electron microscope facilities of the Image Analysis Lab and for the operation and routine maintenance of the transmission electron microscope. This person develops new procedures, as needed, for the preparation of biological specimens for TEM examinations, records appropriate TEM images, then quantifies the image elements, analyzes the data, and reports the findings. This person also instructs new users in proper TEM operation and/or assists them during their use of the instrument.

*Major/Essential Duties of Job*

Prepares biological specimens for TEM examination: including fixation, staining, embedment, microtomy and ultramicrotomy, negative staining, pre- and post-embedding immunogold labeling, pre-embedding enzyme histochemistry, and stereology. Images specimens by TEM and LM, prepares raw digital images for examination. Trains new users of the TEM about the correct operating procedures and assists them with TEM operation as needed. Maintains optimal TEM operational status and interacts with factory service engineer to correct any mechanical problems that arise. Works with clients to develop experimental protocols from literature resources for unusual specimen preparations.

*Occasional Duties*

Stocks and maintains appropriate chemicals, supplies, and sample preparation equipment for the TEM lab.

*Required Education and Experiences*

PhD and minimum of 3 years relevant professional experience.

*Preferred Education and Experiences*

PhD in Life Sciences with a minimum of 3 years relevant experience.

If you are interested in applying for this position, please send your CV/Resume and cover letter do Deborah Daniel at [ddaniel@cvm.tamu.edu](mailto:ddaniel@cvm.tamu.edu)

For more information about this position, please contact Dr. Robert Burghardt at [rburghardt@cvm.tamu.edu](mailto:rburghardt@cvm.tamu.edu).

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