

Contact: Andrea Anania

UNIVERSITY OF IOWA EQUIPMENT PURCHASE

Action Requested: Consider approval for the University of Iowa to purchase a JEOL USA Incorporated JXA-8230 Superprobe Electron Probe Micro Analyzer (Superprobe EPMA) for \$999,900.

Executive Summary: Equipment purchases at the Regent institutions costing more than \$1 million are required by Board policy to be approved by the Board of Regents.

Description of the Equipment

The Superprobe EPMA permits recognition of the chemical composition of solid materials while retaining sample quality. The advanced composition detection of the Superprobe EPMA will allow for an efficient and accurate detection of composition of small volumes of various solid materials. This equipment combines both wavelength and energy dispersive X-Ray spectrometers for trace element detection.

Justification of the Need for the Equipment

The University reports that existing equipment cannot incorporate both spectrometer types and provide trace element detection without sacrificing sample quality. Multiple researchers within the Department of Geoscience will utilize the addition of the Superprobe EPMA system for testing and analysis of solid materials.

Any Known Alternatives to the Equipment Proposed

A Request for Proposal was issued and, of the two proposals received, JEOL USA Incorporated was determined by the Evaluation Committee to be the most responsive and best value.

Estimated Cost and Source of Funding

The cost of the Superprobe EPMA is \$999,900. The source of funding is a National Science Foundation grant with required match from the Office of the University of Iowa Vice President for Research.

Board Policy: Chapter 7.06B(12) of the Regents Policy Manual requires that:

- ◆ Equipment costing more than \$1,000,000 must be submitted to the Board for approval; and
- ◆ Requests submitted to the Board Office for approval must include the following information:
 - ◆ Description of the equipment;
 - ◆ Justification of the need for the equipment;
 - ◆ Any known alternatives to the equipment proposed; and
 - ◆ Estimated cost and source of funding.