

BUSINESS AFFAIRS AND HUMAN RESOURCES
AUGUST 20, 2009

BOISE STATE UNIVERSITY

SUBJECT

Request to purchase Vis-NIR Tunable Femtosecond Mode-Locked Laser System for Nanophotonic Devices and Materials Research

APPLICABLE STATUTE, RULE, OR POLICY

Idaho State Board of Education Governing Policies & Procedures, Section V. I. 3.

BACKGROUND/DISCUSSION

Boise State University seeks to acquire a tunable pulsed laser source and measurement system to enable multidisciplinary research in the College of Engineering and the College of Arts and Sciences. The proposed acquisition consists of a synchronously pumped parametric oscillator backed by a mode-locked ultrafast Ti:sapphire laser.

The pulse picking capability of the Ti:sapphire offers flexible repetition rates while maintaining the desired pulse energy. This combination of short pulses, high repetition rate, and wide wavelength tunability enables many new material and device characterization techniques. Techniques of particular use to the University include emission spectroscopy, time resolved pump-probe spectroscopy, and time of flight spectroscopy.

IMPACT

The acquisition of the laser will have a positive impact on research for faculty from across campus, including engineering, physics and chemistry. Acquisition of the laser system will significantly contribute to the success of the Electrical & Computer Engineering Ph.D. program with an emphasis in quantum electronics.

Based on estimates prepared for the National Science Foundation (NSF) proposal, the total purchase cost will not exceed \$628,000 (see Attachment 1). The source of funding will be NSF grant funds. The project will be procured through the standard process using the State of Idaho Division of Purchasing. Multiple contracts may be issued for purchases of the required components. The University has received notification that the proposal has been recommended for funding and is awaiting final contract award. The procurement process will not commence until the NSF contract is awarded.

ATTACHMENTS

Attachment 1 – NSF Proposal

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STAFF COMMENTS AND RECOMMENDATIONS

BOARD ACTION

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A motion to approve Boise State University's request to proceed with procurement of the Vis-NIR Tunable Laser System upon receipt of NSF grant funds for a total cost not to exceed \$628,000.

Moved by _____ Seconded by _____ Carried Yes _____ No _____