

STUDENT TECHNOLOGY FEE REQUEST FORM

Procedure for Submission

Form Updated 9/05/17

- 1 Submitter must obtain required information from vendor(s) An official quote from the vendor must be attached. No website screen shots
- 2 This request must be reviewed, approved, and submitted by the requesting program's School Chair
- 3 The School Chair may email this request to the Tech Fee Director *Since some schools will have multiple requests, please rename request PDF files in the following format Schoolname# (rank, 1 being the highest priority) example - SocialJustice1, SocialJustice2, etc Please submit as one PDF file*

Dept. making request.	ESRS	Requesting Faculty:	Barry Scheuermann, Ph.D	Date Submitted:	10-18-2017
IMPORTANT: Attach an official quote from the vendor.					

List one item OR group (for use as a "package") per page.

Item Name	Vendor info. (name, address, Web site URL, phone #, email, etc.)	Part or Model #	Cost (each)	Qty	Total
Multigon NeuroVision 2 Channel Transcranial Doppler System	Multigon Industries, Inc 525 Executive Blvd. Elmsford, NY 10523 (800)289-6858	N/A	\$17,950	1	\$17,950
Course(s) where item(s) will be used	KINE 4850/4860, KINE 4560/5560, KINE 6100/8100, KINE 6420/8420, KINE 6960, KINE 8960	Expected life of product (years)	10-12 years	# Students Impacted per Year	160-220/year
Location equipment or software will be used/stored	HH1407	Will Tech Fee needed for annual renewal or maintenance? What is the annual cost?		No	

Provide a brief description of the technology requested*:

Transcranial Doppler Ultrasound can be applied to the research and clinical settings Doppler Ultrasound in general is used to measure arterial diameters and blood velocities, which in part, can be used to help diagnose cardiovascular dysfunction This equipment will replace equipment of a considerably older version that no longer operates and was originally purchased using departmental funds provided to B Scheuermann

Briefly describe how the technology will be used (function)*:

The technology will be used for both research and teaching purposes. For research, Doppler ultrasound will be used to measure the response of muscle blood flow to exercise using various modalities of exercise For teaching purposes, the equipment will be used to teach students the clinically-relevant technique of Doppler ultrasound.

Provide a rationale that Tech Fee funds are appropriate for this request*:

At the present time, technology in the School of Exercise and Rehabilitative Science is available for the assessment of pulmonary function and gas exchange at rest and during exercise However, we are limited in our abilities to teach cardiovascular responses that occur within cardiac cycles The addition of a transcranial Doppler system, which is one of the few pieces of equipment that allows for changes in the cardiovascular system to be viewed on a beat-by-beat basis, would provide our students the opportunity to examine detailed changes in the cardiovascular system to various forms of physical activity as well as long-term activity This advanced technology would drastically improve the learning experience by reinforcing theoretical concepts discussed in lecture through the hands-on application of this technology

***Keep in mind that the committee members come from a variety of educational backgrounds and may not be familiar with department specific language. Please use concise, common terminology so that committee members reviewing this form will be able to fully understand the request.**

- If you are submitting a request for computers, printers, scanners or software, you must consult with College Computing and the technology staff, to acquire a quote and to make sure that this equipment/software is supported by UT and compatible with existing technology

MULTIGON INDUSTRIES, INC.
525 EXECUTIVE BOULEVARD
ELMSFORD, N.Y. 10523
Phone (800) 289-6858 Fax (914) 376-6111

Quotation Valid for Ninety (90) Days

To: Tim Rotarius, MS.Ed
Ph.D Candidate/Graduate Assistant
School of Exercise Science and Rehabilitative Science
University of Toledo

From: Bill Stern

Date: 10/18/17

Re: Quotation # 108372

TERMS : NET 30 Delivery 2 weeks ARO

ITEM #	QTY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
TOC2MD	1	<p>MULTIGON NEUROVISION DIGITAL 2 CHANNEL TCD SYSTEM WINDOWS OPERATING SYSTEM 17" HIGH RESOLUTION SCREEN , TOWER PC</p> <p>4 MHZ MONI VASCULAR PROBE 2each- 2 MHZ TCD PROBES MULTIPOINT PORT CONNECTORS FOR 2 MHZ, 4 MHZ, 8 MHZ DOPPLER PROBES INTEGRATED DOCKING STATION HOSPITAL GRADE POWER CORD MULTIGON SOFTWARE INCLUDING THE FOLLOWING</p> <p>Bilateral simultaneous ANALOG OUTPUT OF peak and mean velocity TWO CHANNEL WITH M- MODE SOUND AND SPECTRAL STORAGE SOFTWARE APPLICATION INCLUDING PATIENT REPORTS ARCHIVING TO CD-ROM, DVD OR HARD DRIVE</p> <p>LONG TERM MONITORING EMBOLI DETECTION OPERATOR'S MANUAL</p> <p>ONE YEAR WARRANTY</p> <p>SHIPPING NO CHARGE</p> <p>TOTAL PRICE</p>		<p>\$17,950 00</p> <p>\$17,950 00</p>
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