

## JHCEHSHS STUDENT TECHNOLOGY FEE REQUEST FORM

Procedure for Submission:

Form Updated: 12/10/12

1. Submitter must obtain all required information from the desired vendor(s). An official quote from the vendor must be attached.
2. Only one request per Request Form. This request must be reviewed, approved, and submitted by the requesting program's Department Chair.
3. The Dept. Chair may email this request to the Tech Fee Director. *Since some departments will have multiple requests, please rename request in the following format: Dept # (rank, 1 being the highest priority) and a brief title*

Dept. making request:	Kinesiology	Requesting Faculty:	C. Armstrong	Date Submitted:	2/4/2013
<b>IMPORTANT: Attach an official quote from the vendor.</b>					

**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
Noraxon TeleMyo EMG system – Telemyo 2400 G2 transmitter, Telemyo 2400 G2 Receiver	<b>Noraxon USA, Inc.</b> 15770 North Greenway-Hayden Loop, Suite 100 Scottsdale, AZ 85254 Phone: 800-364-8985 www.noraxon.com	2400G2-T 2400G2-R	\$19990 \$8495	1 1	<b>\$24211.75</b> <b>Reflects 15% discount</b>
Course(s) where item(s) will be used	KINE 45450, 4910, 6/8130, 6/8200, 6/8300, 6/8400, 6/8960	Expected life of product (years)	15	# Students Impacted per Year	200+
Location equipment or software will be used/stored	HH 1412 and HH 1406	Will Tech Fee funds be needed for annual renewals or maintenance?	No		

**Provide a brief description of the technology requested\*:** The items requested are the two components of an **EMG telemetry system**. This system is used to record the activation of muscles involved in human movement. It consists of a **transmitter**, worn by the subject and used to transmit the muscle activation data to a **remote receiver** unit. The receiver then stores the data or transfers it to a computer for processing.

**Briefly describe how the technology will be used (function)\*:** This technology will be used for structured lab experiences in a variety of courses where students study such topics as the effects of training, injury, aging, and disease on human movement. Additionally, it will be used by undergraduate students involved in senior research projects, as well as graduate students for master's thesis and doctoral dissertation research. In all cases the technology will be used to enable students to observe and measure muscle activation during the performance of functional activities such as walking, stair climbing, sitting, standing, as well as sport activities such as running, jumping, and throwing.

**Provide a rationale that Tech Fee funds are appropriate for this request\*:** EMG technology is one of the most frequently used technologies for instruction and student research in Kinesiology. It is the means by which our students are able to **actively learn about muscle contraction and the many factors that control human movement**. Presently we have one newer Noraxon EMG system (approx. five years old) and three very old Noraxon systems (average age twenty years), two of which were donated to the department when other departments replaced them. We use all four systems regularly to insure that students in lab classes and those involved in research are able to have hands-on experience in doing EMG. However, our three older Noraxons system are very much out-dated. Recently, we learned that the company no longer can repair them and no longer has replacement parts, as they consider them to be "vintage" systems. Thus, we need to replace them with a new EMG system to insure that we are able to continue to adequately support student use of EMG technology. **Funding of this request will insure that students will continue to have the opportunity to study muscle function through the use of contemporary electromyographic 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.**



# Noraxon USA, Inc.

The World Leader in EMG Technology

# QUOTATION

15770 North Greenway-Hayden Loop, Suite 100  
Scottsdale, AZ 85254  
Phone: 800.364.8985 Fax: 480.443.4327

**Date:** 2/6/2013

**Prepared For:**

Chuck Armstrong – Director, Motion Analysis Lab  
1616 North Westwood Avenue  
HHS, Room 2503  
University of Toledo  
Toledo, OH, 43607  
E-mail: CARMSTR@UTNet.UToledo.Edu

Description	Amount
<b>INSTRUMENTS</b>	
<b>TeleMyo 2400 Transmitter 2G w/ PC Interface Receiver Card - 8-Channel System with MRXP – Master Edition Software</b>	\$19,990
<b>Systems Include:</b> Belt-worn Transmitter Unit, PC Interface Receiver Card, One (1) Set Electrode Cables, Battery Charger, Sample electrodes and User Manual. System packaged in a waterproof carrying case.	
<b>TeleMyo 2400 G2 Receiver w/ analog outputs and inputs</b>	\$8,495
<b>Systems Include:</b> Full featured telemetry receiver unit provides 16 Analog outputs and allows 8 analog inputs. It has a “Built-in Wireless Sync” and isolated serial data port. This wall powered Unit includes WiFi radio card (antenna), power supply and USB interface cable for the PC interface and a user manual.	
<b>Requires the TeleMyo 2400T G2.</b>	
Includes: Synchronization cable, Receiver Unit, Battery Charger, and User Manual.	

**Discount (15%)**

**TERMS**

- \* Each software version comes with 2 licenses. For additional MRXP licenses for the same site, facility, department and user group, a site license may be purchased. Site License (3 additional MyoResearch XP licenses) Price \$995.
- \* 15% discount to be applied to entire purchase. Total not shown
- \* Free upgrade to MR3 MyoMuscle Module (schedule to be available March 2013).
- \* Terms are USD and net 30 days.
- \* Delivery is 2 to 4 weeks ARO.
- \* Shipping, and applicable taxes are responsibility of buyer
- \* Warranty 1-year parts and labor for hardware and 90 days software FOB Scottsdale, Arizona.
- \* This quotation is valid for 60 days.

*Note:* Noraxon recommends a computer system and printer be dedicated solely to the EMG system. Customer supplied computer systems require the approval of Noraxon USA to insure compatibility of software/hardware combinations.

If you have questions or need additional information, please contact me at (702) 281-7903. Thank you once again for your interest in Noraxon EMG Systems.

Sincerely,

Todd Shewman BA Kin. Director of Research Systems  
Noraxon USA, Inc.  
480-443-3413 (office) 702-281-7903 (cell)  
480-443-4327 (fax)



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*The World Leader in EMG Technology*

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