1) Purpose and Instructional Need (include goals and objectives)

**Purpose**: To provide an evidence based experiential learning experience, for AT students, in the area of therapeutic laser treatments for musculoskeletal tissue healing. Currently, our students have no experiential learning with therapeutic lasers.

**Objectives**:
(a) Develop the common techniques and procedures for the use of therapeutic laser treatment protocols for treating musculoskeletal tissue treatment and healing.
(b) Be able to become proficient in selecting and administering proper treatment dosage for a variety of musculoskeletal treatments for a variety of conditions.
(c) Be able to apply evidence-based principles when treating student athletes in clinical education experiences.

**Number of students benefited**: approximately 148 undergraduate/graduate athletic training students. This technology will indirectly benefit approximately 400 Student-athletes

2) Identify how project will impact and benefit student learning include % affected and number affected.

**Evidence of Student Access to Technology**:
The following courses will benefit from this technology: AT 3070 Therapeutic Interventions I; AT 3071 Therapeutic Interventions Clinical Skills I; AT 3080 Therapeutic Interventions II; AT 3081 Therapeutic Interventions Clinical Skills II; AT 3000 Athletic Training Clinical Integration; AT 6289 Advanced Rehabilitation; AT 5070 Advanced Therapeutic Interventions I; AT 5071 Advanced Therapeutic Interventions I Clinical Skills; AT 5080 Advanced Therapeutic Interventions II; AT 3081 Advanced Therapeutic Intervention Skills II

**Evidence of Student Impact (% affected and number affected)**: This technology will benefit approximately 100%/148 undergraduate/graduate athletic training students. Currently our students have no experiential learning in this area. All of their knowledge about therapeutic lasers is currently gained through lectures, videos and readings. This technology would provide them with an experiential learning opportunity and allow them to becoming proficient at using a therapeutic laser. A skill that is now required by our accrediting body (CAATE).

3) Describe how project aligns Educator Preparation Conceptual Framework and/or your department/division program goals.

**Alignment with Educator Preparation Conceptual Framework**:

1. **Candidates must deeply understand and reflect on their content and pedagogy.**
   a. Students will gain experiential learning opportunities that allow them to gain a greater understanding of the uses and applications of therapeutic laser for the treatment of patients with musculoskeletal injuries. Therefore, connecting theory to practice through reflection.

2. **Candidates must engage in rich, purposeful, and authentic field-based experiences to develop appropriate dispositions and practices.**
a. This technology (therapeutic lasers) will allow our students the opportunity to administer therapeutic laser treatments in a real-world clinical environment. This allows the student to develop appropriate evidence practice decisions as it pertains to treatments using therapeutic lasers for musculoskeletal injuries.

Alignment with existing departmental goals:
A. This technology aligns with the following Division of AT Objectives:
   1. To provide the students the opportunity to become competent in all of the athletic training clinical proficiencies.
   2. To provide quality instruction that utilizes state of the art resources and technology as well as participating allied health professionals.
   3. To provide experiences that encourage critical thinking and problem solving.

4) Describe your plan to assess the impact of the technology project on student learning.

(a) Track the AT graduates scores on the Board of Certification Exam in the area of Therapeutic Interventions (specifically as it pertains to the utilization of therapeutic lasers) (b) Track the students’ individual proficiency in the clinical decision making and application via course practical competency exams. (b) track clinical proficiency via Clinical Preceptor Evaluation forms (accreditation requirement)

5) Support Needed:
   a. Who will install technology and provide technical support for project?
      No installation necessary. Theses are mobile units that are self contained.
   b. Where will resources be installed? Building Human Performance Center Room # 002.
   c. Does this room have the necessary data & electrical infrastructure required for your resources? Yes
   d. Does this proposal include funds to add the necessary infrastructure if not present? N/A

Note: All funded proposals will be required to submit a report summary and will be invited to present an overview of project during Spring 2018 semester.
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**Total** 9300
# COLDLASERS.ORG

**558 West Willow Court**  
**Louisville, CO 80027**  
**Phone: 1-800-388-0850**

**SOLD TO**  
Peter Neibert  
University of Northern Iowa  
University Ave & Campus St.  
Cedar Falls, IA 50613  
319-273-6447  
Peter.neibert@uni.edu

**SHIP TO**  
SAME

### Shipping

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**Other Comments or Special Instructions**  
This price includes shipping. There is no sales tax.

**SUBTOTAL $9,300.00**  
**TAX RATE 0.000%**  
**TAX $**  
**S & H $**  
**OTHER $**  
**TOTAL $9,300.00**

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**Buyer Authorization**  

If you have any questions about this invoice, please contact  
Ken Teegardin, ken@coldlasers.org, 1-800-388-0850