

**OBJECTIVE:** To obtain a full-time position in the field of biomedical engineering.

**EDUCATION:** Michigan Technological University (MTU), GPA: 3.48 Houghton, MI  
B.S. in Biomedical Engineering, Minor in French, Concentration in Tissue Engineering December 2007

## BIOMEDICAL EXPERIENCE:

**Tissue Engineering Lab, MTU** Houghton, MI  
08/2005-present

Leading a project to validate a new model of lymphedema.  
Developed whole mount immunostaining protocol for lymphatic capillaries in murine model.  
Used Apotome and fluorescence microscopy to photograph tissues.

**International Business Ventures Enterprise, MTU** Houghton, MI  
Ventilator Alarm Team Leader 09/2006-present

Designing a portable ventilator to be used in pandemics for increased safety and decreased cost.  
Led a team to design a detachable pressure alarm for the pandemic ventilator.

**Developmental and Regeneration Biology Lab, Mayo Graduate School** Rochester, MN  
Mayo Graduate School, Summer Undergraduate Research Fellowship 05/2007-08/2007

Developed a protocol for marking proliferation in the zebrafish (*Danio rerio*) embryo.  
Used confocal and Apotome microscopy to detect fluorescent labeling in embryos.

**Bioheat and Mass Transfer Lab, University of Minnesota** Minneapolis, MN  
National Science Foundation, Research Experience for Undergraduates Grant 05/2006-08/2006

Conducted research on a human line of prostate tumor cells using fluorescence microscopy and FTIR spectroscopy.

## WORK EXPERIENCE:

**Writing Center, MTU** Houghton, MI  
08/2005-present

Coach students weekly in reading and writing skills through relationship-based learning.  
Facilitate bi-weekly study team for World Cultures (UN1002).

**Joe's Sporting Goods** Saint Paul, MN  
11/2003-12/2005

CASHIER/CUSTOMER SERVICE: Conducted sales and return transactions, sold DNR gaming licenses for MN, WI, and IA, trained new employees.

SALES ASSOCIATE: Sold technical ski/snowboard clothing, presented clothing in a creative and marketable fashion.

## LEADERSHIP/ORGANIZATIONS:

Society of Women Engineers, MTU Evening With Industry Co-chair, National Member  
Raised over \$7300 for MTU SWE through Evening With Industry in 2006.

Research Scholars Program, Program Committee member, Secretary 2006-2007

Omicron Delta Kappa, MTU Circle Member, MTU Diversity Roundtable Committee Head 2006-2007

Society for Biomaterials, MTU Chapter Social Chair, National Member

Claybusters, Trap Shooting at MTU, General Member

**SKILLS:** Computer: MS Office Suite, StarOffice Suite, Mathcad, MATLAB, I-DEAS, LabView  
Operating Systems: Windows XP, MacOS X

**LANGUAGES:** French

## ACCOMPLISHMENTS:

### Publications:

- Goldman J, Conley K, Raehl A, Bondy D, Pytowski B, Swartz M, Rutkowski J, Jaroch D, Ongstad E. *Regulation of Lymphatic Capillary Regeneration by Interstitial Flow in Skin*. Am J Physiol Heart Circ Physiol 292: H2176-H2183, 2007.
- Wolkers WF, Balasubramanian SK, Ongstad EL, Zec H, Bischof JC. *Effects of freezing on membranes and proteins in LNCaP prostate tumor cells*. Biochimica et Biophysica Acta-Biomembranes 1768(3): 728-736, 2007.
- Uzarski J, Drelles M, Gibbs S, Goral J, McKeown K, Raehl A, Roberts M, Ongstad E, Pytowski B, Goldman J. *The Role of VEGFR-2 and VEGFR-3 Signaling in the Resolution of Secondary Lymphedema in the Mouse Tail Skin*. American Journal of Physiology. In Press.

### Academic:

- Michigan Tech Fund Merit Award 2007 Female Recipient
- Academic Excellence Award 8/2004-12/2007