



The
UNIVERSITY
of **VERMONT**

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**Graduate Research Assistantship Positions Available
Spine Bioengineering Lab, School of Engineering, College of Engineering & Mathematical
Sciences, University of Vermont, Burlington, Vermont**

The Spine Bioengineering Laboratory at University of Vermont has openings for Graduate Research Assistants in the area of intervertebral disc bioengineering and tissue engineering.

There are several exciting projects that could provide excellent educational opportunities. The graduate research projects may include one or more of the following:

- 1) Effect of mechanical loading and damage on the biosynthetic response of intervertebral discs in vivo and in organ culture.
- 2) Tissue engineering of intervertebral discs and stem cell repair
- 3) Multiscale modeling of intervertebral disc organ, tissue & cells
- 4) Electromechanical properties of intervertebral disc tissue in confined and unconfined compression.

The School of Engineering at the University of Vermont offers a stimulating graduate experience in a beautiful setting. Several faculty in the School maintain active research programs in orthopaedic and vascular bioengineering. Excellent facilities are available in the School and through collaborators at the College of Medicine a short walk across campus. Opportunities exist to work with local, domestic and international collaborators including the NIH in Bethesda, MD and the AO Research Institute in Davos, Switzerland.

A strong undergraduate and or Master's level background in engineering or biological sciences is required. Please apply with cover letter, CV, and the names and contact information for 3 references. An application directly to the graduate college is also required (<http://www.uvm.edu/~gradcoll/>). For more information, contact Dr. Iatridis at:

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Relevant links:

<http://www.uvm.edu/~spinelab>