Are you a student majoring in a biological or a computational science or in engineering? Are you interested in how computation or molecular and cellular biology plays a role in tissue engineering? Are you thinking about graduate school in one of these fields?

This great summer opportunity is for you! Be a part of this exciting state-of-the-art research experience.

The purpose of this summer institute is to expose undergraduate students to the powerful potential of using computational concepts and tools to improve our understanding of how to design and experiment with engineered tissues. The institute involves lectures on topics in computer science, tissue engineering, and molecular biology, and a collaborative research project.

Components of the research project include learning about computational methods to study large molecular biology datasets such as DNA microarray and proteomic data, analysis of such data generated from engineered tissues, literature analysis of results and predictions, and experimental follow-up of predictions. Students will learn how to work together in teams. They will gain an understanding and appreciation of how computer science, tissue engineering, and molecular biology can be fruitfully combined to study cellular processes. One graduate student or post-doctoral researcher in the groups of the investigators will frequently meet with the participants in the institute and share their experiences in research, life as a graduate student, and subsequent career plans.

Student Housing and Support Costs
The approximate total monetary value is $6,000 (this is including a stipend, lodging & food)

Student support includes:
- A $3,500 stipend
- On-campus housing and meals
- Access and use of the library. On campus parking and bus transportation available for a fee.
- Social activities, workshops, and more

How to apply
- ONLINE APPLICATION. Deadline: February 4, 2013
- To apply please visit http://tissue-eng.vbi.vt.edu/ and follow the instructions for submitting the application materials

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