



I-Teams Global Project Form

 	Project Name: THE NANOGATE: A TUNABLE MEMS LC FILTER	Project Manager: Dr. Alex Slocum Dr. James White	Revision: Draft 1.0
		Sponsor: Deshpande Center Seed Capital Partners	Date: 1-26-04
Project Description		Strategy and Resources	
Overview: <p>The Nanogate is a MEMS device capable of nanometer-scale control over separation of two millimeter-scale polished surfaces, resulting in extraordinarily high aspect ratios. Gap control between two large surfaces with nanometer resolution presents many new opportunities. For example, it could improve the design of devices and instruments such as tunable LC filters or microfluidic control valves with implications for drug discovery.</p> <p>This research will focus mainly on developing the Nanogate LC for personal multi-band wireless communications devices. The researchers anticipate that they can realize cost savings of up to 20% and better performance. And considering that the annual sales growth in mobile phone handsets is forecast to remain at 15%-20% until 2005, the market is certainly ready.</p> Project Goals: <p>To identify a path to commercialization and identify potential high value market opportunities where the technology's value proposition is compelling for customers. The team will seek to focus on one-two primary target markets, describe the current competitive landscape, and identify potential alpha/beta customers. The team will develop a business plan in order to seek funding for a new venture based on the technology.</p>		Current Team Members: Dr. Alex Slocum, Principal Investigator Dr. James White Jeff Fagnan (Principal, Seed Capital Partners), Catalyst Babak Nivi (Analyst, Seed Capital Partners), Catalyst Othman Laraki, MIT Sloan MBA 2004	
Stakeholders: <ul style="list-style-type: none"> - Deshpande Center - MIT VCPE - Dr. Alex Slocum - Dr. James White - Dr. Jeffrey Lang - Jeff Fagnan, Seed Capital Partners - Nivi Babak, Seed Capital Partners 		Project Stage: <ul style="list-style-type: none"> <input type="checkbox"/> <u>Ready for market (start company less than 1 year)</u> Team is well under way and has potential customers (ready to start a company) <input type="checkbox"/> <u>Ready for market with some effort (1-2 years)</u> Prototype in progress and still looking for customers/markets <input checked="" type="checkbox"/> <u>Long-term research (more than 2 years)</u> Exploring: need business plan Milestones: (Please outline goals and approximate dates)	