

## Seed Grant Awardees

### September 2011 - 50 Word Non Confidential Project Summaries

***All awardees will be contacted by MTI within 5 business days.***

***All non-awardees will receive written feedback via mail within 10 business days.***

SG4752 - *Portable Shallow Stream Electric Generator*, Van Keith Herridge, Jr. and L. Darius Jonason, Spruce Head. This grant will fund the development and testing of a prototype of a portable shallow stream electric generator that produces up to 600 watts in very shallow streambeds with variable substrates and channel configurations. It may also be used as an accessory to remote renewable energy collection systems.

SG4756 - *Loring Test of Rapid Deployment Wind Turbine*, Altaeros Energies, Inc., Limestone. Altaeros Energies was founded by MIT alumni to develop a rapid-deployment Airborne Wind Turbine to generate cheap, renewable energy at off-grid and offshore sites. This project will fund testing of a one-third scale prototype of the Airborne Wind Turbine at the former Loring Air Force Base in Limestone, Maine.

SG4760 - *Low Cost Color and Contrast Calibrator*, Sensory Cyber Systems (SCS) LLC, Orono. Sensory Cyber Systems, LLC, in Orono is developing and field testing proprietary software and a hardware device for applications in visual screening, education, and biomedical research. Commercialization of the product would allow optometrists, ophthalmologists, and other health care workers to serve the public better and at lower cost.

SG4762 - *Case Study for Permitting Commercial RAS in Maine*, Harpswell Oceanic Center, Inc., Brunswick. Harpswell Oceanic Center, Inc. in collaboration with RAS Corporation will develop, with the assistance of Baker Design Consultants, a Conceptual Design and Site Plan for use in project presentation and preparation of required federal, state and local permits for Harpswell Oceanic Center and its innovative black sea bass indoor aquafarm.

SG4763 - *Patient Customized Fixture for Stereotactic Frame*, STarFix, Inc., Bowdoinham. StarFix is a Maine medical technology development company that specializes in custom surgical targeting fixtures. StarFix holds nine US patents and was awarded a Medical Design Excellence Award for a deep brain stimulation headframe. StarFix products simplify physician planning and are more comfortable, repeatable, and accurate than traditional metal headframes.

SG4764 - *Development of Cost Effective Building Techniques*, Salty Boats of Maine, Eliot. Salty Boats of Maine will be using MIT Grant funds to develop construction techniques for low speed high torque wind turbine blades using fiberglass reinforced plastics composites.

SG4768 - *Patent Protection for Linguistic Analysis*, Peter Snell & Associates, Gardiner. MTI funds are sought for international patent protection and business planning for an advanced form of automated linguistic (test) analysis. Scope of work for this Information Technology

project entails filing applications in five key regions and producing a written business plan for commercialization.

SG4771 - *Geospatial PDF Mapping*, Blue Marble Group, Gardiner. Blue Marble Geographics will develop support for Geospatial PDF in their Desktop and Software Developer Toolkits. Through this project Blue Marble will address market needs for delivering geospatially intelligent business mapping data to the Adobe Acrobat suite. \$12,500 is requested from MTI, to be matched by \$13,954 in staff time.

SG4772 - *Processing of Environmentally Friendly AN*, Applied Thermal Sciences, Inc., Sanford. Applied Thermal Sciences' proposed project is the installation of a hammer mill for processing Ammonium Nitrate based solid rocket. This falls within the area of Environmental Technologies. We are asking for \$9,511 for improving the processing of Ammonium Nitrate based solid rocket propellant with a hammer mill.

SG4777 - *Commercial Blender Development*, Karkos Group, LLC, Cumberland Foreside. The Karkos Group LLC in Lewiston is developing a new technology commercial kitchen appliance. The MTI funding, through the precision manufacturing sector, will be used to advance the prototype development, competitive analysis and market research with additional testing at the Advanced Manufacturing Center at the University of Maine in Orono.

SG4785 - *Project Management / Client Coordination Software*, Integra Strategic Technologies Consulting, LLC, Portland. The goal of this project is to develop a web-based application for small businesses featuring project management, client invoicing, issue tracking and customer relationship management. This proposal will encompass market research, site structuring and preliminary development.

SG4786 - *iScan(TM) Injury Assessment in Horses*, Signal Insight Inc, Falmouth. Sonotect™ provides the first direct detection and assessment of inflammation, injury and tissue physiological status, including staging of severity. iScan™ scanning devices integrate with web analysis/display services to enhance diagnosis, documentation, economics and outcomes through mobile, handheld, and imaging solutions. An equine clinical study will be conducted to validate commercialization.