For the purpose of informing interested University of Tennessee-Knoxville faculty, please be aware of the following opportunity. Please note that the other recipients of this announcement could be potential collaborators on this opportunity.

**NSF-10-555: Macrosystems Biology – Research on Biological Systems at Regional to Continental Scales**

The National Science Foundation is seeking applications for the Macrosystems Biology – Research on Biological Systems at Regional to Continental Scales Program. Proposals are sought from interdisciplinary teams of scientists to conduct innovative, integrated, systems-oriented "macrosystems biology" research to detect, understand and forecast the consequences of climate and land use change and invasive species on the biosphere at regional to continental scales. Proposals should address the scales where the ecological research challenges are the greatest and where research has the greatest potential to transform the field of ecology by addressing scaling issues that have long hindered development of large-scale ecology. Projects should strive to provide a mechanistic understanding of how multiple scale dynamics contribute to the structure, functioning, and change of the biosphere, and lead to the development of a more predictive understanding of ecological change. Proposals should be well grounded in theory, include novel approaches that will result in a theoretical framework for a predictive understanding of macroscale biology, and shows great promise for enhancing basic theoretical understandings.

Two categories of awards will be made. **Category 1 Awards**: Exploratory or incubation grants to develop teams, explore a high risk idea, strategy, or innovative approach, hold workshops and develop plans to establish regional to continental scale networks of partners. These awards will be 1 to 2 years in duration. **Category 2 Awards**: Larger and longer grants to support full-fledged Macrosystems Biology Research or Modeling studies. These awards may be up to 5 years in duration. Budgets for each type of award should reflect the scope and complexity of the work proposed.

For detailed information about this opportunity please see the program description (NSF-10-555). To find more opportunities from this agency, please see here.
It is anticipated that $20M will be available to support 10 – 15 awards. Cost sharing is not required. Please see the solicitation for complete award information.

**Deadline for Proposal to OR-Sponsored Programs:** 9/9/2010
(Please see the solicitation for complete application & submission information.)

Please contact Sponsored Programs (4-5066) with questions regarding proposal submission requirements for all tracks.

**Deadline for Proposal Submission to Agency:** 9/16/2010

If you have any questions regarding this announcement please contact:

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