For the purpose of informing interested 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-10-554: Decadal and Regional Climate Prediction Using Earth System Models (EaSM)

The National Science Foundation is seeking applications for the Decadal and Regional Climate Prediction Using Earth System Models (EaSM) program. Competitive projects should address key problems critical to linking relevant Earth system processes over a variety of spatial and temporal scales and to advancing the theoretical foundations for the modeling and simulation of existing data and data collected by the new and envisioned NSF environmental observatories. Proposals are encouraged that have the potential to dramatically improve our predictive capabilities as well as our understanding of how small and large scale processes lead to non-linearities and activation thresholds.

The specific goals of this solicitation are to improve upon and extend current modeling capabilities in order to:

1. Achieve comprehensive, reliable global and regional predictions of decadal climate variability and change through advanced understanding of the coupled interactive physical, chemical, biological and human processes that drive the climate system.
2. Quantify the impacts of climate variability and change on ecological, agricultural and other human systems, and identify and quantify feedback loops through which human systems help determine environmental outcomes.
3. Maximize the utility of available observational and model data for impact and vulnerability/resilience assessments through up/downscaling activities.
4. Effectively translate model results and associated uncertainties into the scientific basis for well-informed human adaptation to and management decisions for climate change.

Two types of proposals--incubator/capacity building activities (Type 1) and large collaborative interdisciplinary research projects (Type 2)--are solicited.
For detailed information about this opportunity please see the program description (NSF-10-554). To find more opportunities from this agency, please see here.

A Letter of Intent is required. Letters of Intent are due by May 24th, 2010.

It is anticipated that $45 - 50M will be available to support 20 – 30 (15 – 20 Type 1 and 6 – 10 Type 2) awards. Cost sharing is not required. Please see the solicitation for complete award information.

Deadline for Proposal to OR-Sponsored Programs: 6/18/2010
(Please see the solicitation for complete application & submission information.)

Please contact Sponsored Programs (4-2402) with questions regarding proposal submission requirements for all tracks.

Deadline for Proposal Submission to Agency: 6/25/2010

If you have any questions regarding this announcement please contact:

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