



EcoHealth Alliance

September 6, 2015

Dear Dr. David Miller,

EcoHealth Alliance (EHA) intends to submit a U01 application for the FOA “Big Data to Knowledge (BD2K) Development of Software Tools and Methods for Biomedical Big Data in Targeted Areas of High Need” (FOA Number RFA-CA-15-017). The title of our project is “Mantle: A unifying software platform for desperate big data.”

Dr. Andrew Huff and Dr. Peter Daszak are the Principal Investigators for EcoHealth Alliance:

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Other key personnel are Dr. Noam Ross, Dr. Kevin Olival, Dr. Laura Streichert, Dr. Jeffery Shaman, Mr. Brock Allen, Mr. Toph Allen, and Dr. Carlos Zambrana-Torrel.

Additional participating institutions are: International Society for Disease Surveillance (ISDS), Columbia University, and Clango Inc.

This letter of intent requests support for 1) travel and expense costs for PI and key personnel, 2) salary for EHA, ISDS, Columbia, and Clango staff, 3) graduate student costs, and 4) hardware for testing the developed software.

This work will fulfill objectives by: a) focusing efforts of infectious disease scientists, software developers, data scientists, and information security experts on creating flexible software and metadata standards for complex datasets; b) holding workshops and collaborative meetings to ensure that the software and methods developed protect privacy; c) developing software and methods to analyze, transform, and repurpose disparate data related to infectious disease forecasting (e.g., weather, social media data, clinical EHR data, spatial data, environmental monitoring data, land use change data, spatial economic data); d) develop software and methods that identifies data structure and assigns standardized ontologies and metadata using machine learning.

Please let us know if further information is needed.

Yours sincerely,

Dr. Andrew Huff, EcoHealth Alliance

**Local conservation.
Global health.**

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