

MISSISSIPPI
EPSCoR 
Experimental Program to Stimulate Competitive Research

Computational Sciences Teacher Workshop

Computational Biology ■ Computational Biological Simulation ■ Computational Chemistry

June 21-25, 2010
Mississippi State University
Starkville, MS

When: June 21-25, 2010 (M: 2:30p, T-Th: 9AM-5PM, F: 9AM-12PM)

Where: Mississippi State University, Starkville, MS

Who: Participants of the workshop include grades 9-12 science teachers, 2-yr and 4-yr instructors and faculty from the following counties:

Attala	Clay	Lauderdale	Neshoba	Oktibbeha
Chickasaw	Kemper	Leake	Newton	Webster
Choctaw	Lowndes	Monroe	Noxubee	Winston

Funded by the National Science Foundation MS-EPSCoR (09-03787), this workshop will introduce secondary and postsecondary instructors to emerging fields within the computational sciences. The workshop will specifically focus on themes within the area of computational biology, computational biological simulation, and computational chemistry. Participants will experience inquiry-based and laboratory instruction and will receive research-based curriculum materials developed through the MS-EPSCoR program.

Contributors to the workshop include research and education faculty from institutions of the Mississippi Research Consortium (JSU, MSU, UM, USM).

What is provided:

- Introduction to emerging fields in the computational sciences
- Hands-on laboratory experience
- Research-based curriculum materials to take back to the classroom
- \$100/day professional fee (stipend)
- Travel/Lodging* and Food allowance
- CEUs

Apply online at <http://msepscor.msstate.edu/events> or

Complete an application form and send to:

Katie Echols, education and outreach coordinator

Mississippi EPSCoR

PO Box 63473

Mississippi State, MS 39762

Phone: 662-325-8904

Fax: 662-325-8028

kechols@research.msstate.edu

All applications will be reviewed by the EPSCoR Management Team

Please feel free to distribute information and application materials to your colleagues. More information and updates will be available through <http://msepscor.msstate.edu/events>.

Definitions:

Computational Biology: The development and application of data-analytical and theoretical methods, mathematical modeling and computational simulation techniques to the study of biological, behavioral, and social systems.

Computational Biological Simulation: Aims to develop and utilize different and often disparate computational approaches for modeling and simulation of the complex processes that occur in biological systems, specifically those related to human health

Computational Chemistry: A branch of chemistry concerned with the prediction or simulation of chemical properties, structures, or processes using numerical techniques.

* Travel allowance and lodging is based on mileage from the instructor's teaching institution. Some restrictions apply.

