

Abstract of Research Plan

NAME, ADDRESS, AND TELEPHONE NUMBER OF APPLICANT ORGANIZATION

BioMedware, Inc.
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Ann Arbor, MI 48104-1236

YEAR FIRM FOUNDED

1990

NO. OF EMPLOYEES (include all affiliates)

11

TITLE OF APPLICATION

NetSurv: Monitoring Tools for Disease Surveillance

KEY PERSONNEL ENGAGED ON PROJECT

NAME	ORGANIZATION	ROLE ON PROJECT
L. Estberg, DVM, Ph.D.	BioMedware, Inc.	Principal Investigator
R. E. Hoskins, Ph.D., MPH	WA State Dept. of Health	Consultant
G. M. Jacques, Ph.D.	BioMedware, Inc.	Systems Analyst
J. S. Koopman, MD, MPH	The University of Michigan	Consultant

ABSTRACT OF RESEARCH PLAN: State the application's broad, long-term objectives and specific aims, making reference to the health-relatedness of the project. Describe concisely the research design and methods for achieving these goals and discuss the potential of the research for technological innovation. Avoid summaries of past accomplishments and the use of the first person. This abstract is meant to serve as a succinct and accurate description of the proposed work when separated from the application. If the application is funded, this description, as is, will become public information. **Therefore, do not include proprietary or confidential information.** DO NOT EXCEED 200 WORDS.

The objective of this project is to provide disease trend monitoring software tools that maintain direct access to surveillance data sources and support prompt analysis and public health actions. Specific goals in terms of what the proposed system will achieve for a public health department:

- Real-time disease surveillance and decision support oriented toward immediate response
- Promote sharing of data, analysis, and knowledge across the health department
- Provide ready graphical views of temporal and spatial disease patterns as plots and maps

This project will take advantage of recent technological innovations that allow direct software and data sharing, timely data access, and transparent data integration and synthesis. Significant progress in distributed object computing (CORBA) provides the ideal opportunity to explore innovative models for providing modular data analysis and interpretation support tools. Both computing and data resources can be fully integrated and securely provided over computer networks. The ultimate target is to deliver opportune analytic and visualization tools capable of accessing and integrating multiple data sources, incorporating new cases submitted since last run for efficient, proactive monitoring in a secure and responsive system.

Provide key words (8 maximum) to identify the research or technology.

Surveillance; Distributed software components; Disease trend analysis

Provide a brief summary of the potential commercial applications of the research.

Disease trend monitoring techniques and novel visualization approaches can be incorporated in surveillance systems as analytic components. These sorts of decision support tools, able to convert raw data into informative output and accessible from the Web or any networked client machine, should prove valuable to a variety of analysts responsible for disease monitoring.