

**University of North Texas School of Public Health
Research Collaborative
January 30, 2009**

Organization Description of Interests for Collaboration

Name of Organization: University of North Texas Institute of Applied Sciences

Description (100 words or less)

The Institute of Applied Sciences (IAS) is a multi-disciplinary unit that includes the Departments of Biology, Geography, Philosophy and Computer Science on the UNT-Denton Campus. There are several biomedical research areas within the IAS including computational epidemiology and toxicology, and environmental toxicology and chemistry. The IAS was awarded a Research Cluster this past year, which will enable the hiring of two senior faculty members in the areas of mammalian cardiovascular and endocrine toxicology. There is also significant interest in relating ecological processes (e.g. fate, transport) to human health related diseases and impacts. The IAS has a long history in research related to aquatic toxicology, aquatic ecology, conservation biology and water chemistry.

Key Areas of Interest for Collaboration (Check all that apply and specify as needed)

- Cancers (Specify): Computational
- Cardiovascular Diseases (Specify): B-3 receptors, progesterone impacts
- Diabetes/Obesity (Specify): _____
- Asthma/Respiratory Diseases (Specify): Computational models of influenza
- Other Diseases/Conditions: (Please list and specify): Endocrine/reproductive, HIV and disease modeling
- Access to Care (Specify): _____
- Quality of Care (Specify): _____
- Cost of Care (Specify): _____
- Populations of Interest: (Please list and specify): _____
- Other (Please list and specify): Metabolism and kinetics, neurotoxicology, alternative animal models, Pharmacology of hormone and adrenergic receptors