

Mexico MSI Institutes

Access to High Digital Services and Information for Large Communities of Users

Gerardo Ayala San Martín, Universidad de las Américas, Puebla

Work in this laboratory of young researchers is focused on human-machine interface, databases, and pattern recognition. Researchers build on advances made elsewhere, but specialize in directions unique to Mexico. For example, scientists are working on a project on speech recognition in Mexican Spanish, which has potential for wide commercial use. They are also making digital libraries and internet access available to larger communities.

Laboratory for High-Energy Physics

Gerardo Herrera Coral, CINVESTAV - México

This program is establishing a laboratory to make meaningful scientific and technical contributions to a major detector system of the Large Hadron Collider at CERN. The group, which offers strong training opportunities, has produced a potential medical spin-off - a variation on a particle detector that acts as a less-invasive form of an x-ray imaging device.

Physicochemical Studies of Novel Nanostructured Materials

José Luis Morán López, Instituto Potosino de Investigación Científica y Tecnológica

The objective of this program is to develop a center of excellence in nanomaterials in Mexico, creating an important and potentially commercially significant niche in the active and highly competitive global nanotechnology area.

Signaling, Plasticity and Neurodegeneration in the Central Nervous System

Ranulfo Romo Trujillo, Universidad Nacional Autónoma de México

The goal of this center - to understand the neurological bases of decision making - is a challenging one that, if successful, will mark a high point for neurobiology. This group's research is particularly relevant to areas of medicine such as Alzheimer's disease and epilepsy.