NASA SBIR 2010 Phase I Solicitation

S4.02 Miniature Integrated Payload Suites

Lead Center: ARC

Participating Center(s): GSFC

In order to fully realize the economy, launch frequency, and science utility benefits that small spacecraft represent, a new generation of MEMS-based sensor suites are desired. These sensors could be the result of miniaturization and repacking of existing sensors, or consist of novel devices and technologies that can accomplish similar measurements of larger systems in a fraction of the current size, weight and power. In addition, these suites would contain the necessary data processing and power conditioning systems to support routine operation. Compatibility with Space Plug and Play (SPA) or similar architectures that streamline system integration processes is also desired.