

## **OSDC/PIRE research proposals**

Information Technology Research Institute of National Institute of Advanced Industrial Science and Technology is of the international members of the RIPE project. We are actively working on several research projects such as GEO (Global Earth Observation) Grid. GEO Grid is aiming at providing a cyber infrastructure for Earth sciences which need federation of heterogeneous and distributed observation data.

More information will be found at

- <http://www.geogrid.org/>
- <http://disaster-e.geogrid.org/>
- <http://itri.aist-go.jp/en/about/research.html>

### **Development of sustainable infrastructure and applications for disaster responses**

The goal of the research is to develop a sustainable infrastructure on which data from OSDC and GEO Grid could be shared through standard OGC protocols. This research will also develop applications on the developed infrastructure for disaster responses. The application will support disaster responses such as rapid recovery of key services, observation of disaster areas, and evacuation planning. The system will use technologies developed by Matsu project and GEO Grid both of which are using OGC standard protocols for providing services.

To achieve the above the students will need to familiarize with cloud and OGC services.