



IRIS

Providing the tools for geophysical DISCOVERIES...






The IRIS Data Management Center maintains the world's largest system for collecting, archiving and distributing freely available seismological data.

- Data are open and freely available via the internet
- Holdings exceed 200 terabytes of observational data
- Archive contains high-quality active-source and passive-source data from instruments deployed around the world for research studies
- Repository also includes contributions from national and international networks and agencies





INSTRUMENTS

 The IRIS Portable Instrument Center loans seismic sensors, data acquisition systems and ancillary equipment for targeted studies worldwide.

- The instrument pool has nearly 3000 broadband, short-period and high-frequency sensors
- Temperature-hardened sensors are available for polar conditions
- Ancillary equipment includes a variety of power and communications systems
- Instruments may be borrowed for periods ranging from a few days to more than two years





EXPERTISE



Skilled IRIS technical staff provides practical engineering, design and geophysical knowledge to improve the capture of high-quality data.

- Active-source experiments
- Passive-source/microseismic experiments
- Engineering technology development for ice-covered environments
- Equipment installation assistance





SERVICES



IRIS offers experiment support services for scientists and other personnel preparing to conduct field studies.

- Best practices for deploying seismic stations in the field
- Hands-on training
- Logistics and in-field support
- Data pre-processing techniques





INTERNSHIPS




The highly competitive IRIS Summer Undergraduate Internship Program provides talented students an opportunity to work side-by-side with leading geophysicists.

- Learn important practical skills needed to succeed in a professional career
- Conduct research with state-of-the-art geophysical instruments and data
- Present results and prepare papers for publication





COMMONALITIES

 The IRIS Consortium and industry share common interests that lead to geophysical discoveries through seismology.

- Active-source geophysics
- Passive-seismic/microseismic monitoring
- Cultivation of future professionals
- Engineering and technology innovation to enable cutting-edge geophysical investigations





OPPORTUNITIES



IRIS is a vibrant community of seismologists, geophysicists and other scientists dedicated to advancing geophysical research and conveying benefits from geophysical progress to all of humanity through the management and operation of high-quality geophysical facilities.

- Sponsor a student to participate in the IRIS Summer Undergraduate Internship Program
- Collaborate on international capacity building
- Serve as a member of an IRIS Standing Committee
- Acquire a Transportable Array Station
- Advocate for IRIS programs within industry



Founded in 1984 with support from the National Science Foundation, IRIS is a Consortium of more than 100 universities dedicated to the operation of scientific facilities and provision of services for the acquisition, management and distribution of seismological data. IRIS programs contribute to scholarly research, education, earthquake hazard mitigation, tsunami warning, and to the monitoring of underground nuclear tests. IRIS is a 501 (c) (3) nonprofit organization incorporated in the state of Delaware with its headquarters in Washington, DC.



Facilitate. Collaborate. Educate.

INCORPORATED RESEARCH INSTITUTIONS FOR SEISMOLOGY

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