



graduate program

CERI is affiliated with the Department of Earth Sciences (DES) at the University of Memphis, through the academic program. The DES graduate program offers Ph.D. and M.S. degrees in Earth Sciences. Students interested in geophysics or active tectonics usually enter the graduate program with CERI support and work directly with CERI faculty members. CERI has eleven faculty members and two USGS scientists serve as adjunct faculty.

We offer full (12 month) support in the form of Research Assistantships or Fellowships. Students have many opportunities to conduct field experiments and gather original data. Most students are supported on externally funded research grants that provide opportunities to engage in projects in many different parts of the world. Of course, our proximity to the active New Madrid seismic zone presents many unique research opportunities.

Student progress is monitored using a committee system; each student has a primary advisor and a committee to assist with course selection and provide guidance in research. Our working environment is friendly and supportive.

For more information or visit our website.



Current dissertation and thesis topics:

Ground Motion Studies in the Mississippi Embayment and Kachchh Basin, India

Seismogenesis and the Time Dependency of Crustal Strength

Reciprocal Problems for Wave Propagation in 3-Dimensional Heterogeneous Anisotropic Media

Seismic Reflection Reprocessing for Mid Crustal Structure: Application to the New Madrid seismic zone, Central U.S.

ShakeMap Implementation for the Upper Mississippi Embayment

Remote Seismicity Triggered by the Denali Fault Earthquake, Alaska

Continuing Evolution of the CERI Continuous GPS Network

Reprocessing of the USGS Mississippi River Shallow Seismic Survey

Determination of Shallow Shear Wave Velocity Structure and Attenuation in the Mississippi Embayment from VSP and Refraction Data

Paleoliquefaction Study Along Rivers Southeast of the New Madrid Seismic Zone, Southwestern Tennessee and Northwestern Mississippi

