Earth science

Pre-service Earth science teachers will choose one of three investigations. (On
the application, you will indicate your preference by ranking them from 1 to 3.)
Two pre-service teachers will be involved in each investigation. (The air quality
investigation will involve one pre-service Earth science teacher and one pre-
service chemistry teacher.)

**Structural geology (Dr. Mark Abolins, mentor)**

Dr. Mark Abolins is developing novel field techniques permitting the discovery of geologic
structures (e.g., faults) in poorly-exposed areas where strata dip less than 10 degrees.

**Water quality (Dr. Melissa Lobegeier, mentor)**

Dr. Melissa Lobegeier is using thecamoebians to investigate water quality in central Tennessee.

**NEW! Earth science education research (Dr. Katherine Mangione, mentor)**

Dr. Mangione is investigating the alternative science conceptions of K-12 students and
pre-service teachers