

FY 02 Healthy Homes Demonstration and Lead Studies Technical Grantees

**Research Triangle Institute
P.O. Box 12194
3040 Cornwallis Road
Research Triangle Park, NC 27709-2194
Amount of Award: \$194,194
Contact: Dorothy A. Davenport
(919) 541-7298**

Research Triangle Park, North Carolina

The Research Triangle Institute (RTI) will work with recipients of HUD lead hazard control grants to test a protocol for conducting screening for soil-lead concentration using portable X-Ray Fluorescent (XRF) lead analyzers to measure soil-lead levels in the field. The protocol was developed under a previous HUD research grant. The protocol will be tested at approximately 12 additional sites throughout the country. Once the protocol is refined, it can be used to screen for hazardous levels of lead in residential soils and for better targeting cost-effective interventions to reduce these hazards. Under the grant, RTI will also develop and test new protocols for preparing soil samples for lead analysis in the field.

**Advanced Energy Corporation
909 Capability Drive, Suite 2100
Raleigh, NC 27606
Amount of Award: \$700,000
Contact: Margaret Inman
(919) 857-9000**

Raleigh, North Carolina

Advanced Energy and its collaborators (Habitat for Humanity, National Institute of environmental Health Sciences) will investigate the impact of three approaches to low cost residential construction on indoor environmental quality. The environmental measures of concern include both physical measures (e.g., humidity) and levels of common household allergens (e.g., dust mite, cockroach) that can be important triggers for asthma and allergies. The researchers will examine the effects of relatively low cost modifications in basic housing design (e.g., mechanical ventilation, improved moisture control) on these environmental measures, with the objective to determine which construction practices have the largest and most cost-effective impact on indoor environmental quality and ultimately, occupant health.
