

# Example Budget Sheet for a NEES Related Project

**Note: Please add 52% overhead charge for the University of Texas at Austin**

**Last updated: Feb. 24th, 2009**

## Project description:

A NEES related project using T-Rex and Instrumentation Van at a site 1000 miles from Austin for seismic prospecting study. (700 miles + 300 miles from site to site (5 sites total))

## Step 1 Estimate of total time required for the testing

Estimated time required for testing	30	hours	include shaking + relocating shaker
Realistic estimation of required time	68	hours	*2 + 8 hours (for Try out + mistakes + DAQ malfunction + others)
<b>Total days of testing</b>	<b>12</b>	<b>days</b>	6 hours of vibration each day (greater than 1 hour will be counted as 1 day)
Travel	4	days	4 travel days to and from Austin + 4 * 0.5 days from site to site
weekends	2	days	UT personnel is required to take one day off for every 6 days
<b>Days in the field</b>	<b>18</b>	<b>days</b>	

## Step 2: Estimate of cost of Equipment

T-Rex	Highway	\$2,700	= 1000 mile * 2 * \$1.35 / mile (\$1.00 overweight permit + \$0.35 fuel)
	Vibrator	\$2,040	= Vibrator operating time * \$30/hr
Instrumentation Van	Highway	\$500	= 1000 mile * 2 * \$0.25 / mile
	Recording equipment	\$136	= Vibrator operating time * \$ 2 /hr
	Satellite equipment	\$840	= 3 hr * \$280/hr
<b>Total Equipment Cost:</b>		<b>\$6,216</b>	<i>Account category: Material and supply</i>

## Step 3: Estimate of cost of Travel and Expenses

Per diem for 3 people	\$6,750	= 3 people * days in the field * \$125 /day / person
Airline tickets	\$500	= 1 person 1 trip
Rental car	\$500	
<u>Equipment breakdown induced travel*</u>		20% of estimated user traveling cost should be prepared in user budget nees@UTexas can only cover equipment break-down induced travel costs of the nees@UTexas personnel.
<b>Total Travel</b>	<b>\$7,750</b>	<i>Account category: Travel</i>

## Step 4: Estimate of other cost

Material and supply	\$500	
Fuel supply truck	\$500	Estiamted: required for more than 10 hours of vibration
Mobile phone service in the field		no charge for NEESR project
<u>Site liability insurance**</u>		
<b>Total Others</b>	<b>\$1,000</b>	<i>Account category: Material and supply</i>

## Step 5: Estimated total cost

Total direct cost	\$14,966	
Indirect cost (52% overhead)	\$7,782	<b>Account category: Overhead</b>
<b>Total Cost</b>	<b>\$22,748</b>	

## Notes:

\* nees@UTexas vibrators operate with pressures up to 4,000psi, and can output a ground force as high as 60,000 lbs. Components of the vehicle are under high pressure and strong vibration for a long period of time. From time to time, component can fail and field tests will be interrupted. Equipment repairing time ranges from 30 minutes to up to one month at a time. There is a limited amount of budget at nees@UTexas to cover travel cost resulting from equipment breakdown and other incidents. However, this is for nees@UTexas personnel and equipment only. Users are suggested to add an additional 20% of their traveling cost for unexpected equipment breakdown and other incidents.

\*\* Users are required to conduct site survey and purchase site liability insurance before field tests. The cost of the site liability insurance is estimated to be \$2,000 per-project.

\*\*\* Field test can not be conducted over national holidays.