

IGuANA Electrical Resistivity Tomography (ERT) Rental from U of WY Checklist

University of Wyoming Near Surface Geophysics Instrumentation Center (UWNSG)

Renting resistivity equipment can be expensive, but EarthScope Consortium has funds to cover rental and shipping costs for educational users. Be sure to include EarthScope in the process from the beginning.

1. Prospective user contacts education@earthscope.org about initiating a rental, include preferred and alternate dates. Rentals are expensive, so on-campus use should be efficient – ideally just one week (initiate request >30 days prior to need; ideally sooner)
2. EarthScope field education staff submits request for 56 electrode SuperSting setup on behalf of the prospective user https://www.uwyo.edu/geolgeophys/research/uwnsg-user-info-equipment-request_form.html
 - Instrument list:
 - 1 SuperSting R8 (with 56W & 56DD sequences loaded)
 - 56 electrodes
 - 1 pair 2-m takeout spacing cables
 - SuperSting R8 accessories (power cables, interconnect cables, download cables)
 - UWNSG ToughBook (for downloading and field processing)
 - UWNSG – 2D EarthImager Software Dongle for field processing
 - UWNSG SuperSting/Resistivity Statement of Procedures (SOP) for field acquisition and processing
 - **The USER will need to provide:***
 - 1-2 12 V batteries (Deep Cycle are preferred over car batteries)
 - 12 V battery charger if using equipment for more than 1 day
 - ~2 small sledgehammers (2.5-5 lbs) to pound in the electrode stakes
 - Note: UWNSG requires evidence of institutional insurance. If this is a barrier, EarthScope can provide insurance evidence on behalf of the user.
3. If the instrument is available for the requested dates, go to the next step. Otherwise, communicate between user, EarthScope staff, and UWNSG to determine alternate dates.
4. EarthScope staff works with prospective user to obtain insurance paperwork from renting institution or EarthScope. Required by UWNSG no later than 10 days before the ship date
5. Instrument ships from U of WY loading dock via carrier
6. User receives instrumentation and conducts educational activities
7. User re-packs equipment and ships back to U of WY
8. Equipment arrives back at U of WY and undergoes return checks. The total rental cost is for the total days it is out of UWNSG possession (including shipping days)
9. After return checks are complete, UWNSG sends the final rental and shipping bill to EarthScope.

Rental costs as of January 2024 (increases annually)

- SuperSting ERT: \$229/day
 - CG-5 MicroGravimeter: \$272/day
- Fees are door to door including shipping days. Rates are reviewed annually and may change without warning.

*If you do not have funds to purchase these items, EarthScope may be able to provide a small grant the first time. Ask us at education@earthscope.org.