

## Equipment

The School of Geography and Archaeology has state of the art Research and Teaching Laboratory facilities. Below is a comprehensive list of all laboratory and field equipment available for loan within the School, please contact the relevant person for booking or further information.

**Discipline of Geography:** equipment available to borrow by staff, graduate students, and undergraduates (on recommendation of supervisors)

The equipment listed below may be booked through Aaron Potito, Room 118 in Geography, (Tel 091-493936, ext: 3936 / aaron.potitonuigalway.ie) unless otherwise indicated below. Please list the equipment you require and your preferred collection and return dates, along with your name, discipline, home address, contact phone number(s) and email address. A refundable deposit of €50 may be required in certain instances.

- Eijkelkamp full hand auger set for soils
- Soil augers
- Tree coring equipment: 12" and 16" increment borers, fingerless gloves, flagging tape, etc.
- Lake coring and bathymetry (subject to training and/or field supervision):
  - Glew gravity corer (30m line), sectioning equipment, rafts, pumps, etc.
  - Livingstone piston corer w/ 20m of rods and associated rafts/platform
  - Russian peat corer (1-meter) with extension rods
  - Hummingbird fishfinder w/ built-in GPS for lake bathymetry w/ associated inflatable boat (WavEco 230SS) and 2.5 hp engine and electric engine
- Wenglor (YH03PCT8) laser sensors and 5M connection cables
- Dissolved oxygen meter w/ 10m lead
- pH and conductivity meter
- Flow meters
- Garmin Etrex handheld GPS units
- Davis Weather Station for remote installation and data logging
- Hobo Tidbit digital data loggers (temperature)
- Bartington MS2F surface point probe and MS2B dual frequency sensor for use with MS2 magnetic susceptibility meter\*

**The following equipment can be booked through Siubhan Comer, Room 107 in Geography (Tel 091-492643, ext: 2643 / siobhan.comernuigalway.ie)**

- Digital voice recorders
- Digital video cameras
- Digital cameras and SLR camera

Trimble R8 VRS Rover [Shared with Ryan Institute. Contact Kevin Lynch in Geography (091-495779, ext: 5779 / kevin.lychnuigalway.ie) or Owen Doherty in the Ryan Institute (091-492974, ext: 2974 / owen.dohertynuigalway.ie) for availability.]

Additional small equipment that may be borrowed (subject to availability):

- 50cm x 50cm gridded quadrats
- Callipers
- Infiltrimeters, rain gauges
- Surveying equipment: compasses, clinometers, survey rods, measuring tapes (30m)
- Frame pack
- Waders
- Raingear (parkas and waterproof pants)
- Ropes
- Half-meter rulers

**Discipline of Archaeology:** equipment available to borrow by staff and graduate students (on recommendation of supervisors):

The equipment listed below may be booked through Joe Fenwick, Archaeological Field Officer, Room Arc206, Discipline of Archaeology (Telephone 091-493100 / ext: 3100 / joe.fenwicknuigalway.ie). Electronic field equipment will only be loaned to those students who have attended and successfully completed the relevant introductory courses (SPA 450 Introduction to digital surveying – Total Station / SPA451 Introduction to Digital Surveying - Trimble GPS / Introduction to Archaeological Geophysics). Please list the equipment you require and your preferred collection and return dates, along with your name, discipline, home address, contact phone number(s) and email address. A refundable deposit of €50 may be required in certain instances.

- TS1 Nikon DTM332 Total Station (No. 1) and accessories
- TS2 Nikon DTM332 Total Station (No. 2) and accessories
- TS3 Nikon Nivo 5.m Total Station (No. 3) and accessories
- GPS1 Trimble GeoExplorer 2005 series handheld GPS (No. 1)
- GPS2 Trimble GeoExplorer 2008 series handheld GPS (No. 2)
- GPS3 Trimble GeoExplorer 2008 series handheld GPS (No. 3)
- GPS4 Trimble GeoXT std 6000 series handheld GPS (No. 4)
- L1 Level, tripod and staff (No. 1)
- L2 Level, tripod and staff (No. 2)
- L3 Level, tripod and staff (No. 3)
- MS Bartington MS2 magnetic susceptibility meter with MS2D search-loop
- G601-1 Bartington 601 single sensor fluxgate gradiometer
- G601-2 Bartington 601 dual-sensor fluxgate gradiometer
- RM15 Geoscan RM15 twin-probe electrical resistance meter
- RM85 Geoscan RM85 twin-probe electrical resistance meter
- FM36 Geoscan FM36 fluxgate gradiometer
- LapF1 Lenovo Thinkpad Field Laptop (for fieldwork use – topo/geop survey)
- LapF2 Lenovo Thinkpad Field Laptop (for fieldwork use – topo/geop survey)
- LapC Dell Latitude laptop (for general purpose use on campus)
- DPE Epsom Data-projector
- DPD Dell Data-projector

- GD1 Geoplot Dongle (No. 1)
- GD2 Geoplot Dongle (No. 2)
- TL1 Geophysical traverse lines on Reel (No. 1)
- TL2 Geophysical traverse lines on Reel (No. 2)

Additional field survey equipment housed in Archaeology that may be borrowed (subject to availability):

- Measuring tapes (100m, 60m, 50m, 30m, 5m & 3m)
- Ranging rods
- Compasses
- Optical square
- mEssfix 6m measuring rod
- Garmin GPS 12 XL (x 2)
- High-resolution Canon SLR camera
- Olympus C220 Zoom 4.0 megapixel camera
- Planning frame (1m x 1m)
- Plane table
- A2 Drawing boards
- Photographic stand with lights
- Ultrasonic distance meter
- Leica Disto laser distance meter
- Walkie-talkies
- Large plastic box, bamboos and raincoats for magnetometry
- Stereoscope
- Digital weighing scales 0 – 5kg

The following equipment is available for use in the **School of Geography and Archaeology Laboratories**. Please contact Aaron Potito (091-493936, [aaron.potitounuigalway.ie](mailto:aaron.potitounuigalway.ie)) to confirm availability:

- Fume hood
- Drying oven
- Muffle furnace
- Dissecting microscopes (4)
- Compound microscopes for teaching (20)
- Research-quality compound microscopes with digital imaging (2)
- Analytic balance and digital balances
- Tree core preparation: wood moulding, hand saw, sandpaper, etc.
- Tree-ring measurement: boom arm microscope, 18" unislide measuring tray, digital measurement encoder
- Full sets of nested dry sieves and shakers
- Mortar and pestle sets
- Soil (N, P, K, pH) and water (N, P, pH) test kits
- Full suite of glassware, plastic ware, select chemicals and other consumables