



Gamma ray Neutron Test Facility (GNTF) – GSFC/GGAO

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Description of Facility

- The GNTF is an outdoor and thus low background facility that permits the safe testing of high intensity radiation detectors. Facility personnel will operate a DT Pulsed Neutron Generator (PNG) from inside a building as much as ~50 m away. The PNG emits 14 MeV neutrons in either a pulsed or continuous mode with an average isotropic intensity of up to $\sim 10^8$ n/s.
- Available equipment: DT Pulsed Neutron Generator
- ~ 30% time available to the community; subject to change dependent on demand and facility personnel availability
- Access: in person only
- Center access restrictions for foreign nationals



The GNTF is an outdoor facility for safely testing radiation detectors

How to use the facility

- Contact the POC to request access
- Requests will be reviewed for feasibility. If acceptable, the project will be placed in the queue subject to proposal award/funding. Small and/or quick proof of concept tests could be run at no cost dependent on evaluation
- Requests are prioritized on a first-come, first served basis, unless mission critical.
- Costs: the \$2000 per day cost is primarily for labor since two facility operators are required for the safe operation of the PNG.

Contact information:

- Goddard Geophysical and Astronomical Observatory (GGAO) at NASA Goddard Space Flight Center, Greenbelt, MD, USA
- POC for information and scheduling:
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