

# Geoteric 2023.1 AI Server Recommended Specifications

## Overview

As of Geoteric 2023.1, Geoteric optionally includes Geoteric AI Horizons and Geoteric AI Faults when purchased with the appropriate licenses. Geoteric AI Horizons and Geoteric AI Faults include CPU and GPU intense processes and so, it is recommended that these new processes are hosted on a separate server machine (Geoteric Server).

This guide details the recommended specifications for the AI Horizons server.

This guide also details the recommended specifications for optionally installing and running both the Geoteric AI Horizons server and the Geoteric AI Faults server on the same machine.

Alternatively, if hosting the Geoteric AI Faults server on the machine on which Geoteric is hosted, then please see the “Geoteric 2023\_1 Classic Recommended Specifications Jan2023” document.

Geoteric Desktop is the user facing Geoteric application with 3D visualisation of seismic data. Please see the document “Geoteric 2023\_1 Classic Recommended Specifications Jan2023” for guidance on the Geoteric hosted machine specifications.

## Geoteric AI Server

The Geoteric Server on which Geoteric AI Horizons processing will take place requires a dedicated server/workstation. It has a minimum specification as listed below.

### Geoteric AI Horizons dedicated workstation

CPU – Dual or Quad Intel Xeon Gold – 24 cores or more per CPU

RAM – 256GB or more

Storage – local 1x 2TB SSD or M.2 for O/S and temp storage

Storage – High speed (min 10Gbit) SAN or file share for mass project storage

### Geoteric AI Faults AND Geoteric AI Horizons dedicated workstation

The Geoteric Server on which Geoteric AI Horizons AND Geoteric AI Faults processing will take place requires a dedicated server/workstation with extra GPU. It has a minimum specification as listed below.

CPU – Dual or Quad Intel Xeon Gold – 24 cores or more per CPU

RAM – 256GB or more

Storage – local 1x 2TB SSD or M.2 for O/S and temp storage

Storage – High speed (min 10Gbit) SAN or file share for mass project storage

GPU – NVidia P,V or A class GPU with 16GB or more of GPU RAM

## Antivirus and other software

- We recommend that you add the Geoteric program folder (and the entire contents) to your antivirus exceptions whitelist.
- You should also ensure that your antivirus is not scanning the Geoteric temp folder and the project folders whilst they are in use.
- Ensure that any backup or indexing software is not actively running on your machine whilst you are using Geoteric as this would noticeably impact performance.