

## Geotechnical engineering

GÉOTEC takes part in all stages of your geotechnical project, from initial design to final completion:

[Preliminary geotechnical surveys](#)

[Design-oriented geotechnical surveys](#)

[Project implementation-oriented geotechnical surveys](#)

**GÉOTEC is competent in the following fields:**

**BUILDINGS:** industrial facilities, businesses, warehouses, offices, housing;

**ENERGY:** production (thermal, hydraulic and nuclear power plants, wind turbines (ground level and off shore), photovoltaic plants, transport (electrical lines, gas pipelines);

**CIVIL WORKS:** on-ground and underground structures;

**LINEAR PROJECTS:** roads, motorways, railway lines (conventional and high-speed), tunnels;

**RIVER AND PORT STRUCTURES:** ports, dams, piers, outlets.

### **SOFTWARE**

GÉOTEC has a wide range of calculation software:

GDM7: Storing of geological data for large surveys;

GEOINFO: Database management;

GEOFOND/FOXTA: Dimensioning (shallow and deep foundations);

TALREN 5: slope stability calculation;

RIDO 4.12 / KREA: Dimensioning of diaphragm walls, strutting systems for deep excavation, sheet piles, etc.;

GEOMUR: External stability of retaining walls;

PLAXIS: 2D analysis of stress and strain on geotechnical structures;

PLAXFLOW v1.6: Hydraulic flow 2D modelling;

CLIQ: Soil liquefaction analysis;

GEOSPAR: Dimensioning of nailed walls.