



Engineering



killingley

Complete Engineering
Solutions





NT Killingley's Engineering Department applies the most cutting edge services to your engineering, surveying, design and measurement requirements to provide the most efficient and cost effective solutions.

Our team of experienced engineers have at their disposal the latest technology, techniques and software to ensure your requirements are met efficiently, accurately and, most importantly, as economically as possible. All staff are regularly trained and kept up to date with industry developments, as well as holding relevant CSCS and other qualifications.

Our continued experience providing engineering solutions for Clients, End Users, Contractors as well as internally means we understand the needs of the modern construction project and,

for example, how sensitive or time critical requirements can be. We have partnering agreements with a number of manufacturers and suppliers of equipment and software and work hand in hand with them testing and developing tomorrow's solutions.

This gives us a unique position within the industry to understand and influence technological development and allows us to position ourselves to utilise new equipment, techniques and software to better serve our clients.



Engineering Surveying Services

Our team of engineers are available to help with every aspect of engineering and surveying that your project may need from: feasibility analysis, volumetric calculations and planning solutions; to on-site control, progress surveys/reporting and as-built records; to maintenance and inspection.

We can undertake all manner of surveying and engineering tasks either individually, distinctively or as part of a greater involvement with your project; ensuring your scope and deadlines are met, these may include:

- Topographical/land surveys (pre, during and post construction), GPS, total station, laser scanning, levelling etc.
- Aerial surveying, photography and filming.
- 3D modelling and rendering.
- Feasibility analysis.
- Volumetric and cut/fill analysis.
- Measured building surveys.
- Site engineering, setting out and dimensional control.
- Machine control setup, support and model design.
- Boundary and boundary dispute support.
- Tunnelling and underground control and surveying.
- Long term monitoring.
- Utility surveys and mapping.
- Progress reporting including surveying, imagery, aerial work and filming.

Aerial Surveying, Photography and Filming

We operate a fleet of UAV's to cover all aspects of aerial works. Our staff are fully trained, insured and Civil Aviation Authority approved for the use of UAV's for commercial work.

Major efficiencies and economies can be made through the use of UAV's and we are able to advise clients and plan activities to make the best of this potential.

Examples of works undertaken include:

Topographic/land surveying:

- Efficiency gains for 'normal' survey tasks with much greater levels of detail captured.
- Large areas are able to be surveyed very quickly.
- Inaccessible or high risk areas able to be undertaken quickly and efficiently without putting persons at risk.
- Complete photographic record of site as a 'by-product'.

3D modelling:

- Creation of 3D visualisations from survey data.
- Point cloud generation.
- Feasibility assessment, marketing and records.

Photography and filming:

- Hi-resolution imagery and 4k video footage.
- Can be used for marketing, progress reporting, presentations or simply for record purposes.

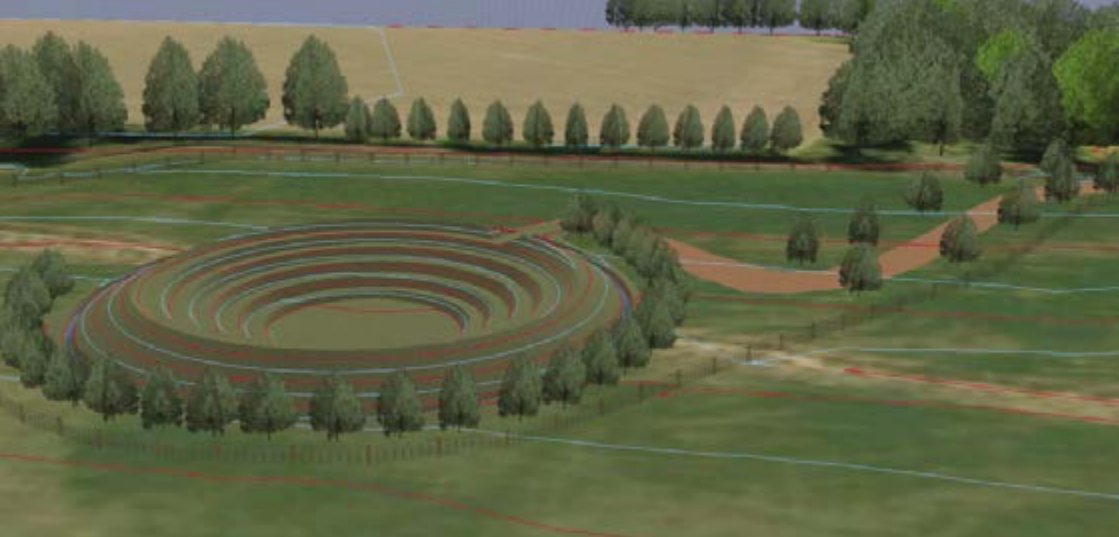
Inspection and surveying:

- Building or structure inspections can be undertaken quickly, economically, safely and remotely without the need for other access arrangements such as scaffolding.
- Roof inspections, chimney/wind farm inspections, insurance assessments and agricultural/geological environmental surveys.
- Much more affordable than aircraft hire for comparable outputs.



Qualified UAV Pilots
CAA PFAW Accredited

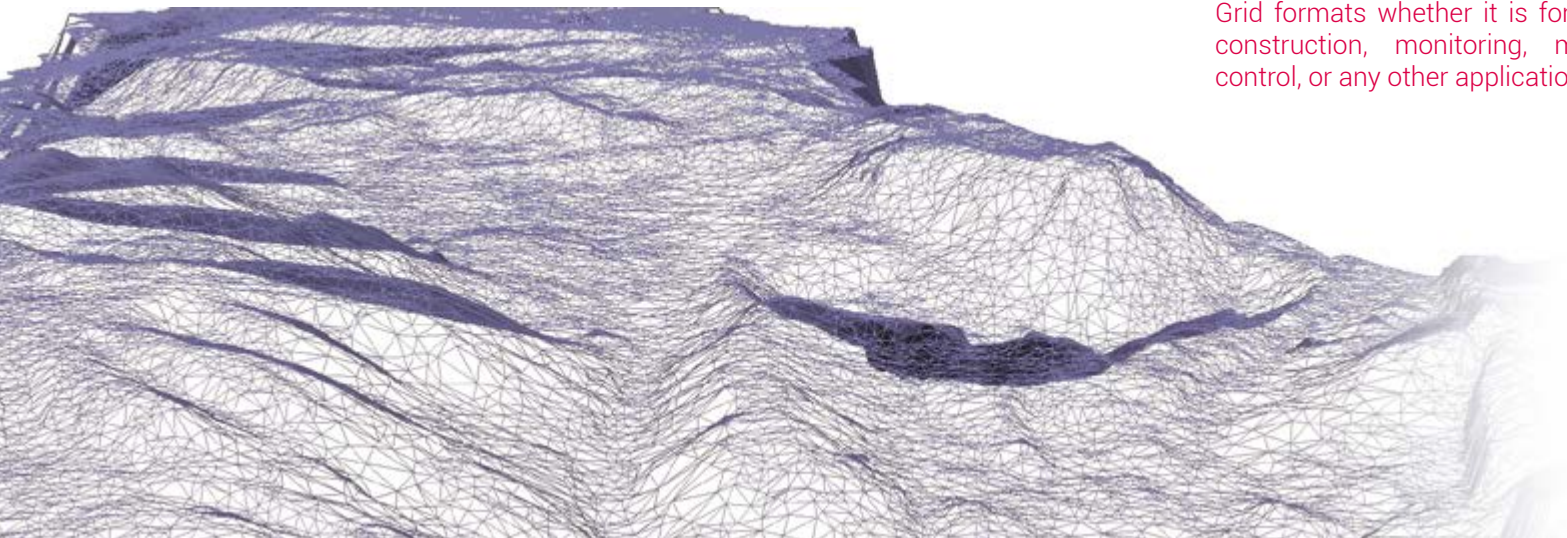




3D Modelling and Project Analysis

Our engineers are highly experienced in producing 3D digital terrain models, 3D renders and point clouds for use in all aspects of the project life cycle. We operate cutting edge 3D modelling software capable of multiple input and output formats including BIM integration.

Quite often, we find we can incorporate design changes that greatly increase project efficiencies with the benefit of savings in both time and costs. Utilising 3D modelling also brings increased project understanding, which leads to more accurate planning and potential incorporation of machine control systems to realise even greater efficiencies.



Dimensional Control and Setting Out

The key to accuracy on any project is the quality of control and setting out. Our engineers are able to undertake all aspects of survey control establishment, checking and maintenance to ensure your site control stays accurate and precise. We can undertake control checks and transformations as required to ensure you are tying in with design information be it in National or Local Grid formats whether it is for use in construction, monitoring, machine control, or any other application.

Setting out can also be undertaken for clients: profile boards, batter rails, kerbing pins, etc can be installed for use on site following interrogation of your design information.

Machine Control

Our Engineering Department work closely with the rest of the NT Killingley team to provide 3D modelling, support and troubleshooting for their fleet of machine controlled equipment, these are services we also offer externally.

We can help clients with 3D model creation for use in all machine control systems and applications. We can interrogate on site control to cross reference with 3D models, establish base stations and perform transformations from National to Local Grids if necessary to ensure the finished works comply with the design requirements.



NT Killingley Ltd offer an award winning commercial landscape and earthworks contracting service covering all aspects of bulk earthworks, groundworks and landscaping. With a full time staff of 150 and a turnover of £15 million, NT Killingley can offer sufficient skills and financial capacity to carry out the largest projects. Complex projects are a particular speciality as the Company has a large skilled in-house workforce, covering all the trades found in hard and soft landscape projects, earthworks, sports pitch construction, play areas, fencing and grounds maintenance work.

Contact Details

Ben Charlton | Senior Contracts Manager
ben.charlton@killingley.co.uk

Alternatively send your enquiry
to engineering@killingley.co.uk
Or call **01246 859 666**

David Bagshawe | Senior Engineer
david.bagshawe@killingley.co.uk