

Join the UK's Soil
Engineering Specialists

Graduate Engineer
Programme



INTRODUCTION

DGS is the UK's Soil Engineering Specialists. We design and construct groundbreaking solutions to complex geotechnical problems. We're a company predicated on engineering expertise and we take the future of the industry seriously.

Our Graduate Engineer programme is designed to kickstart the careers of talented graduates at the beginning of their careers. We work to provide them with the training needed to build lasting careers in soil engineering while gaining hands-on experience of our business. In particular we develop skills and knowledge of our patented foundation

solution. We help engineers apply academic geotechnical knowledge to live construction projects.

Our Graduate Engineers are based on site learning from experienced site managers. Learning is hands on and achieves real life outcomes. All our graduate engineers gain from day by day communication with our experienced engineers including our directors.



Soil Stabilisation

Discover our innovative, environmentally friendly soil improvement technology.



Testing and Verification

Learn how we validate our works and demonstrate structural soundness while gaining geotechnical skills.



Dynamic Compaction

Explore groundbreaking techniques expanding the possibility of in-situ soil improvement.



Surveying

Get the hands on experience of on site surveying and volumetric modelling necessary for a career in civil engineering.



Site Management

Develop skills necessary to safely manage complex works while working towards SMSTS certification.



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Our programme is designed to last three years as you develop foundation skills in ground and soil engineering. Over the course of the programme, members gain professional qualifications and build the skills needed to work as an independent engineer.

Almost from day one, the programme sees engineers based on live sites working with experienced site managers. As well as gaining valuable real life skills, engineers provide up to date testing and surveying information for their sites. Over time - as skills develop, graduate engineers will begin to independently supervise smaller projects.



Every engineer will help deliver all of our specialist solutions. A focus on our unique specialist solutions - stabilisation and dynamic compaction - is central to the programme. Engineers will explore our UK exclusive dynamic compaction including our RDC system and the UK's only Rapid Impact Compaction operation. Our patented hybrid foundation solutions see our engineers deliver ground breaking solutions that expand the possibilities of in situ soil improvements.

Every engineer's progress is supervised by a Director who monitors training and development - supporting growth over the course of the programme.



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TRAINING



Training, developing skills and gaining formal qualifications don't stop when you graduate. We work to invest in the continuous professional development of our team. We provide time and funding for our engineers to gain the industry recognised accreditation of the skills they develop working with us. In addition to core training, we provide ancillary training in asbestos, first aid and other fields.

Membership of the Institute of Civil Engineers

We work to support our Graduate Engineers in the process of qualifying as Members of the Institute of Civil Engineers. For relevantly qualified team members we also support qualification within the Geological Society.



Engineering Council Accreditation

We support our Graduate Engineers as they develop the skills required to gain Engineering Council qualifications and accreditation.

Site Management Safety Training Scheme

Over the course of the Graduate Engineer Programme, participants train for SMSTS qualification. This certification is the baseline standard to manage construction works in the UK.



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TESTING AND VERIFICATION



At DGS, we provide a reliable, externally validated regime of testing across our projects. Graduate Engineers manage this process across our sites and learn about all of the tests we use.

Key tests Graduate Engineers manage include:

- California Bearing Ratios (CBRs). Measured with our Lightweight Deflectometers, our team of Graduate Engineers measure, record and analyse hundreds of CBRs per site - ensuring the structural integrity of projects.
- Plate Tests. Graduate Engineers

arrange and supervise the external practitioners who execute plate tests which monitor ground strength.

- Zone Tests. Engineers arrange and supervise the external technicians who execute zone tests which monitor settlement potential.
- Cone Penetrometer Tests (CPTs). CPTs are the key benchmark for our deep ground compaction. Our Graduate Engineers monitor the external results and draft reports that explain and validate the results.
- Nuclear Densometer Tests (NDMs). Graduate Engineers arrange and supervise the external organisations who execute NDM tests which monitor ground density.
- Shear Tests. Our on-site Engineers execute shear tests which monitor soil cohesiveness. Engineers develop the skills required to record, analyse and present these results.

By the end of the programme, Engineers will be familiar with core geotechnical tests and be able to apply them in constructing real life below ground solutions.



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STABILISATION



Soil Stabilisation has existed as a technology for over half a century. In the UK, its uptake has been gradual and it's still seen as a specialist technology. At DGS we're experts in delivering and designing stabilised solutions.

Stabilisation works by mixing combinations of lime, cement, PFA or GGBS into soil. The process increases the bearing capacity of soils allowing them to be retained rather than replaced as building materials. Using this process doesn't just save costs for clients but also delivers huge environmental benefits. Our team were integral in the creation of modern dust-free integrated mixing

technology and we continue to break new ground with the technology. Our patented hybrid foundation solution merges stabilisation technology with dynamic compaction to achieve even higher bearing capacities at lower cost.

Engineers have the opportunity to gain real hands on experience of stabilisation over the programme. Underlying many of our solutions, engineers will deliver stabilised and hybrid solutions. Our graduate team also play a key role in validating stabilisation operations. Our Graduate Engineers are responsible for recording stabilisation mixes and for assessing results using CBR testing.



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DYNAMIC COMPACTION



We are one of the UK's leading dynamic compaction providers. Our core technologies: Rapid Impact Compaction and Rolling Dynamic Compaction are both exclusive to DGS. We are the only UK providers of these packages. Graduate Engineers help manage the implementation, verification and design of both of these processes.

Rapid Impact Compaction is a form of dynamic compaction that works by rapidly 'hammering' the ground with a large weight. Our RIC-9000 is currently the only Rapid Impact Compactor operating in the UK. Engineers work to develop impact plans that

achieve solution parameters as set out by our directors. Engineers also record the real time data gathered by the RIC rig and compare it against external UKAS accredited test data. Graduate Engineers then use the data to create compaction reports that validate our works. These documents - signed off by a director - make up part of our ongoing warrant for these specialist works.

Rolling Dynamic Compaction is the backbone of our compaction programme. RDC works by towing a 12t compaction 'square wheel' behind a tractor. We are the UK construction industry's only user of the Broons RDC square wheel system. Graduate engineers use surveying equipment to create settlement analyses which evaluate the effect of the process.

We are global leaders in site compaction and we want to pass on the skills underlying the technology to a new generation of engineers. Our Graduate Engineers gain footings in compaction that will enable a career in ground engineering continuing the pioneering technology.



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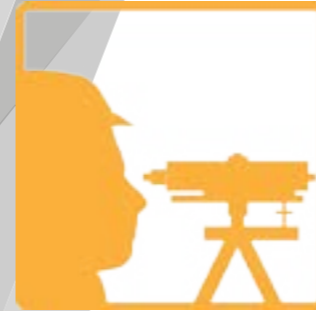
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SURVEYING



Complex solutions rely on accurate, real time surveys. Our surveying is led by our Graduate Engineers who utilise skills by surveying ongoing and prospective sites.

Our regular surveys include: volumetric, building, drainage, structural and other commonly used formats. Engineers will develop experience on-site in the accurate measurement of volumes and levels. We use modern GPS aided survey equipment that give experience of current standards of best practice.

Surveying on-site is one of the ways

engineers partner with our site managers to deliver solutions. By providing surveys for managers, engineers develop an understanding of the information required to deliver our solutions as well as best practice in formatting and detail.

Graduate Engineers also undertake specialist surveying exercises including compaction settlement analyses that validate RDC works.

As well as recording measurements that allow for the creation of surveys, engineers develop skills in surveying software. We provide training for engineers in the Magnet and AutoCad suites of software as well as other application specific tools.

Our Graduate Engineers finish their programme with the surveying ability and technical literacy needed to build a career in construction or ground engineering.



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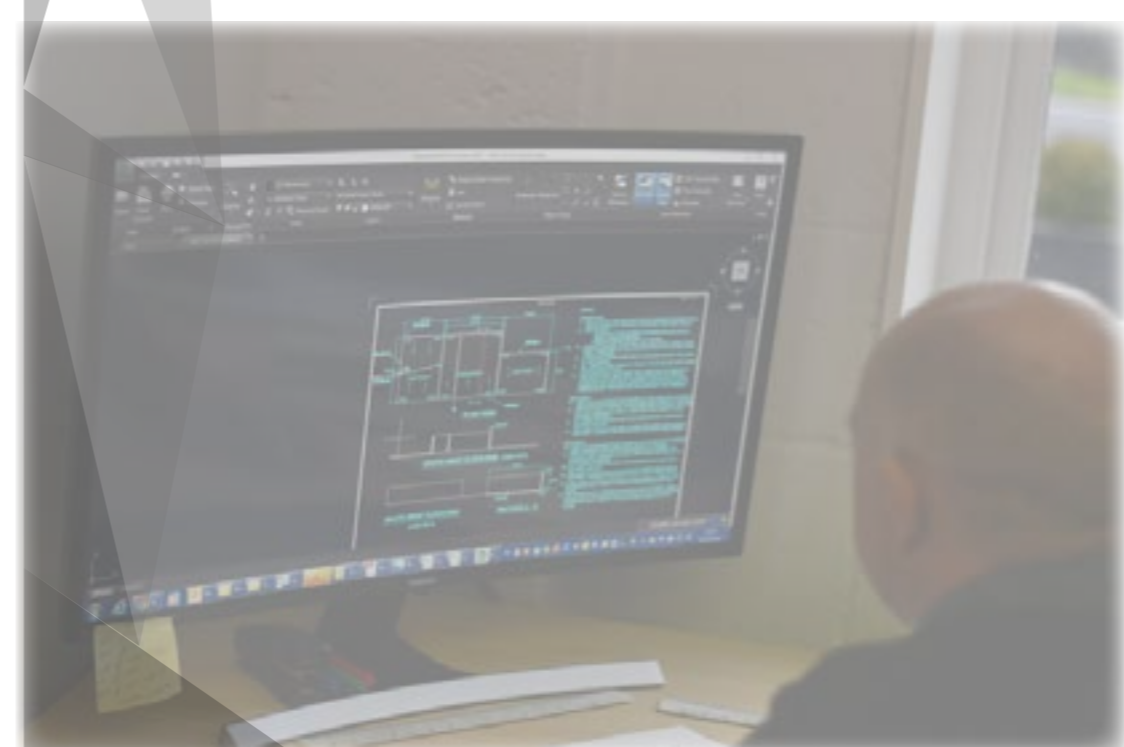
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SITE MANAGEMENT



As an engineering-led business we work to give our Graduates the skills they need to manage the implementation of our solutions.

All of our Graduate Engineers work towards the benchmark standard of the Site Management Safety Scheme and will attend a course to achieve certification as qualified site managers. Towards the end of the three year programme we aim to place each engineer in charge of a project taking direct responsibility for the implementation of a project. Site management experience begins on day one for our engineers. Partnering with experienced managers, engineers learn

from the best in delivering solutions. Our experience shows engineers quickly assume responsibility for management tasks.

As well as providing training in site safety and management we also provide the ancillary training in first aid, asbestos awareness and other topics that have become industry standard.

By the end of the programme we're confident that Graduate Engineers will have the skills and confidence to manage ground engineering projects.



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MEET SOME OF OUR TEAM



Callum Aptakre-Davis BSc (Hons) ACSM

"I'm now moving into my second year as a graduate engineer. I've already earned my SMSTS certificate and I'm currently working as the principal site engineer on an expedited £1m+ solution. Getting real experience on-site working with experienced practitioners has kick started my engineering career."

Jacob Armstrong BSc (Hons) ACSM FGS GMICE

"I joined DGS' Graduate Scheme after completing my degree. I have already received my FGS and GMICE qualifications and am getting real site experience implementing ground breaking engineered solutions."



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