

The TDR Trust



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**α business-led trust dedicated to
people excellence in engineering,
manufacturing and science**



In our fully-equipped labs, "Tomorrow's Science Apprentices" can practice carrying out experimental techniques.



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Registered Charity Number 1061605

A brief overview of TDR

TDR was conceived and launched by industry in the 1990s with the primary objective of creating a world-class skills pool to sustain the people needs of the engineering industry.

The Trust has consistently anticipated the shifting landscape of education and training in the UK and is now very well positioned for future demands.

As an organisation, TDR is people focused and our dynamic structure - we are a charitable Trust supported by a wholly owned trading subsidiary - ensures that we remain independent, forward-looking and sustainable.

The TDR Trust has delivered hundreds of engineering and science programmes in primary schools, and secondary schools. We've also delivered "away from school" activities, bringing learners to our on-site facilities. We have science labs, teaching rooms, engineering labs, ICT and media facilities, all with dedicated and experienced teaching staff.

Our subsidiary trading company, TDR Training Ltd, delivers an extended range of training objectives and provides professional development training for every career stage.

Specifically, TDR Training Ltd delivers People Development programmes and Apprenticeships in Engineering, Manufacturing and Science. Whilst these have been developed as commercial enterprises, income generated by TDR Training Ltd is returned in Gift-Aid to The Trust and as such TDR as a whole operates on a not-for-profit basis.



▲ Training with TDR means gaining plenty of real hands-on experience.

Our heritage

Since its conception TDR has been acknowledged as a leading source of advice, support, learning, training and people development for engineering, manufacturing and science.

Strategic partnerships, with employers and other charities whose objectives align with TDR, have underpinned our development and growth and our heritage goes back much further than the 1990s.

Over a hundred years earlier, in 1882, William Doxford one of the great Victorian engineers, established the North East Coast Engineering Trust. His vision was to establish a legacy that would ensure engineering skills were passed-on to future generations and he provided a skills fund for that purpose.

In 2002, with their shared aim of inspiring young people to embark on a career in science and engineering, TDR partnered with Doxford's charity providing support and resources, and in 2009 concluded a full merger.

TDR is committed to sustaining the North East's engineering heritage and our link with Doxford's legacy is important. We proudly feature the 1933 Coat of Arms, with its "By Science Industry and Honour" motto, on the certificates of achievement awarded to learners on successful completion of their training courses.



The North East Coast Institution of Engineering and Shipbuilders 1933 Coat of Arms



Governance

TDR has always been business-led and strategic decisions agreed by informed Trustees have actively shaped our direction.

Under the company governing memorandum, TDR Trustees are required to have extensive management experience and be renowned experts in their field. Members of the board are professionally qualified specialists and they are industry leaders in their respective disciplines. Consequently all TDR outcomes are truly demand-led.

Our Board of Trustees



- 1 **Bill McGawley** OBE *Chairman, The TDR Trust*
- 2 **Ian Young** *Vice Chairman, The TDR Trust*
- 3 **Richard Dodd** *Group Product and Engineering Director, British Engines*
- 4 **Vince Middleton** *Chairman, Newburgh Engineering*
- 5 **Kate Simpson** *HR Director, British Engines*
- 6 **David Trotter** *Business Learning and Development Consultant*
- 7 **Tracey Wilson** *HR Manager, Komatsu*

Our Memorandum is structured to ensure that independence, succession and Trustee calibre are maintained. Long-term sustainability of the Trust is always placed at the centre of TDR strategy development.

Achieving our objectives

Just as we value our heritage, we also look to the future. At every stage in our growth the charitable objectives have been, and will continue to be, our driving force.

Our objectives are to :

- Make learning a meaningful, positive, relevant and enjoyable experience.
- Be recognised as an exemplar provider of well-informed, timely and relevant information, advice and guidance.
- Encourage ambition in our target population to achieve its full potential.
- Make education relevant and fully connected with the needs of the UK economy.
- Implant lifelong learning for all.
- Promote aspiration and achievement of progression.
- Raise the expectations and calibre of the UK workforce - craftspeople, technical staff, graduates and adult learners.
- Embed employability skills in all.
- Generate a high-calibre pool of capable potential employees who are ready, willing and able to contribute positively to the UK economy.

Under the vigilant eye of the Board of Trustees, TDR has grown in numbers and in scope. Our teams of dedicated professionals have gained an enviable reputation as the first point of call for engineering and science, learning, advice and guidance.

Our training programmes have achieved national acclaim and Ofsted recognition. More importantly we've watched thousands of learners grow in confidence, recognise and achieve their potential, and make informed choices about their education and career progression.

The Ron Dodd TDR Scholarship

Ron Dodd was a founding director of TDR. On his retirement he generously donated a funds package to establish a scholarship. TDR matched the investment from its own resources and established a scholarship investment portfolio.

The scholarship award is managed by a panel, chaired by Pat Leach, Manager of The TDR Trust. Each year a cash award is granted to an individual or organisation in recognition of their contribution to engineering, manufacturing and science. The awarding panel review candidates on the following criteria :

- Contribution to the ethos of TDR Trust's charitable objectives.
- Distance travelled in their learning outcomes.
- Overcoming major obstacles to their achievements.
- High levels of leadership among their peers.
- Consistent performance at a level to achieve their potential.

The Ron Dodd TDR Scholarship Panel



- 1 **Pat Leach** *Manager, The TDR Trust*
- 2 **Richard Dodd** *Group Product and Engineering Director, British Engines*
- 3 **Steve Lambert** *Director, TDR Training Ltd*
- 4 **Arjoo Miah** *Finance Director, The TDR Trust*



Ron Dodd, MBE, director of British Engines Ltd retired from TDR in 2013. His achievements throughout his career continue to be an inspiration to our aspiring engineers and scientists.

TRUST PROGRAMMES

Across TDR, our teams work together with a common vision to "make a difference through positive learning". The TDR Trust team deliver exciting and continually evolving STEM education programmes.

As STEM (Science Technology Engineering Maths) advocates we inspire and nurture young learners and promote the extensive range of career opportunities available in science and engineering. We support students through their transition from school to work and at every stage of the learning journey we build confidence and self-esteem.



Our programmes are designed to harness the enthusiasm and energy of each learner group.



The TDR Trust is dedicated to helping all learners achieve their full potential.



We deliver 'science clubs' that complement the school curriculum and allow individuals to explore additional areas of interest.

TRUST PROGRAMMES

FASE

First Apprenticeship in Science and Engineering, "FASE", is where the fun begins!

Our target age range for this programme is 8 to 11 years old and it really is all about having fun with science. We work with a diverse range of themes such as; "Our Solar System", "Kitchen Chemistry", "Slimey Monsters, Explosive Plots and Unusual Travels!" and through our themes we introduce basic scientific principles.

FASE can be delivered at TDR or at school. We design each session to be as interactive as possible. Through our strong ties with local employers we also arrange site visits where science and technology can be seen in action.



With our youngest learners we aim to capture their imaginations and ensure that their first experiences of a science lab are fun.

We encourage exploring and discovering and we hope our eager young apprentices develop a lifelong interest in how things work.



TDR is equipped to provide a range of Science and Engineering learning opportunities.

TRUST PROGRAMMES

Family Learning

Family Learning is delivered at TDR.

The themes and scientific principles follow the same lines as FASE but here we're providing stimulating learning for children and their parents or grandparents, carers, or other adult family members.

With the additional support of their families we see our youngest learners enjoying themselves and achieving results, such as building water-powered rockets or balloon-powered cars, that they feel genuinely proud of.



During our Family Learning sessions the adults have as much fun as the children.

The results of these themed sessions have shown that learning together is extremely effective.



"Rocket Power" is one of our most popular sessions.

Our teams are always ready to set young minds buzzing with ideas. In addition to FASE and Family Learning, we regularly deliver a range of workshop activities and one-off "fun with science" events.

Both FASE and Family Learning are usually a series of weekly one-hour sessions, delivered over six weeks.

TRUST PROGRAMMES



Our industrial standard labs are regularly used by BTEC in Applied Science students for "real-life" science experiments.

TRUST PROGRAMMES

Tomorrow's Science Apprentices

At the stage where school students are studying for GCSEs (usually age 14 -16 years old) TDR provide opportunities to gain vocational qualifications.

Along with academic studies, our two year Tomorrow's Science Apprentices programmes offer mentoring, company visits and work experience.

Students gain real insights into science careers and with activity based learning they are better prepared for their next steps.

The qualification offered is the **BTEC Level 2 Extended Certificate in Applied Science** - which could lead to employment as an Apprentice Laboratory Technician.*

Student Science Apprentices

Similar to the Tomorrow's Apprentices programme we also offer students in their final years at secondary school (Year 12 and Year 13, usually age 16 - 18 years old) a one or two year learning programme which includes industry recognised qualifications and work experience with an established employer.

The qualifications offered are; **BTEC Level 3 in Science, NVQ Level 2** vocational qualification (where appropriate) and **CGLI Level 2 Functional Skills**.



The training received in TDR labs prepares science students for work with academic or industrial employers.

In addition to learning programmes for school pupils and college students The TDR Trust's experienced science team can also design and deliver professional training for teachers and technicians.

* Our [Apprenticeships](#) brochures has information on TDR's Advanced Apprenticeships in Science.

TRUST PROGRAMMES

Tomorrow's Engineering Apprentices

We provide a range of engineering opportunities, targetted at 14 -16 year olds, through our established Tomorrow's Engineering Apprentices programme. The programme highlights practical skills and is designed to best prepare school leavers that are applying for an Advanced Apprenticeship.

The qualification offered is the **BTEC Level 2 in Engineering** and/or **NVQ Level 2 in Performing Engineering Operations (PEO)** - which could lead to an Engineering Apprenticeship.*



We recognise the value and importance of best-quality work experience opportunities.

* Our [Apprenticeships brochures](#) has information on TDR's Advanced Apprenticeships in Engineering.

Student Engineering Apprentices

Our Student Engineering Apprentices programme has been designed to encourage and inspire 16 - 18 year olds that already have a keen interest in engineering and want to gain knowledge and experience that's relevant to their future career choices. As with Student Science Apprentices, it's a one or two year learning programme which includes industry recognised qualifications and work experience with an established employer.

The qualifications offered are; **BTEC Level 3 in Engineering**, **NVQ Level 2** vocational qualification (where appropriate) and **CGLI Level 2 Functional Skills**.

Made in South Tyneside

"Made in South Tyneside" is our STEM education and business initiative, devised to bring together schools and employers. From its origins in the South Tyneside Manufacturing Forum the programme has grown and now reaches across the North East.

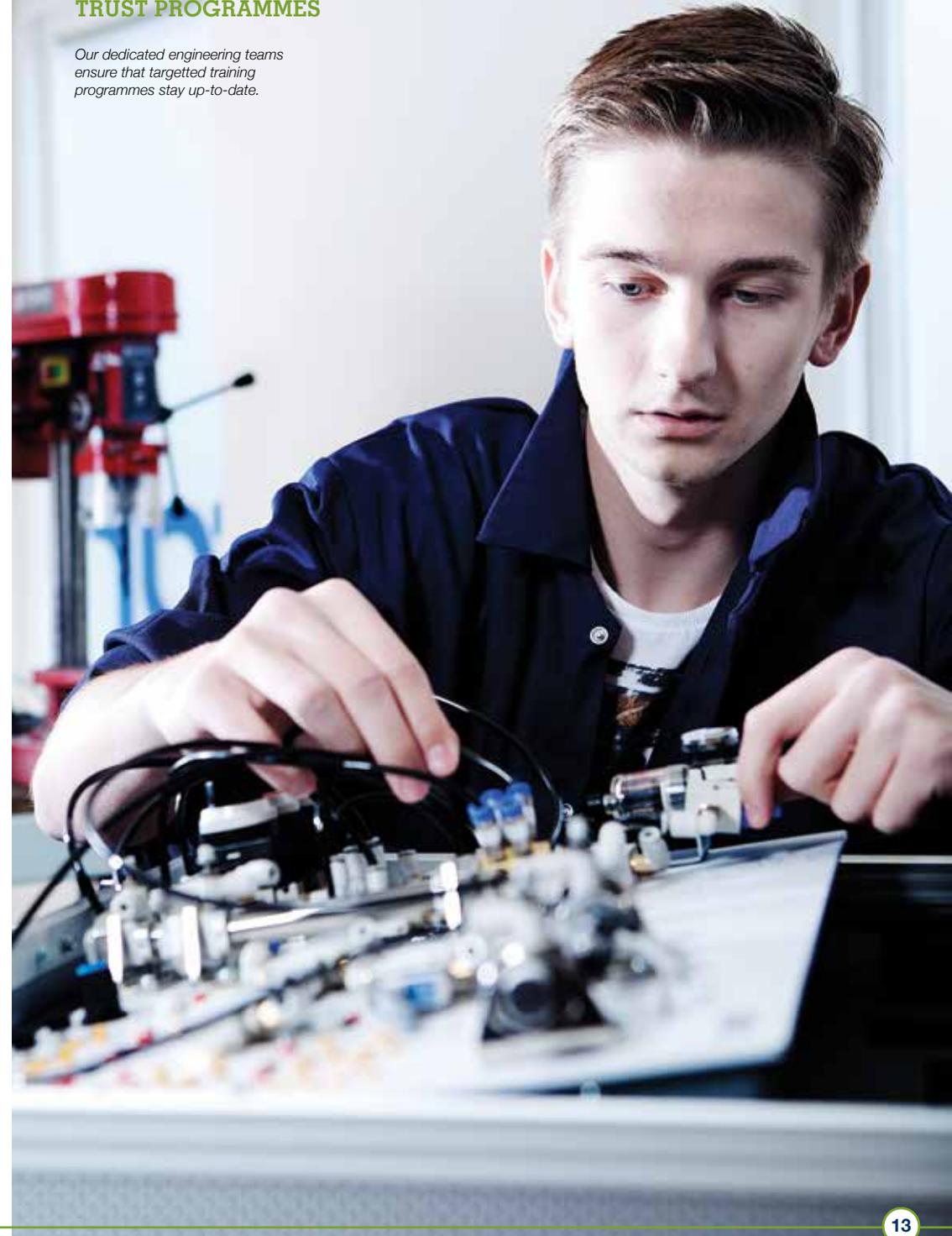
The programme motivates and prepares young people for work. With positive employer engagement, students gain first-hand experience of modern manufacturing processes.

Key to the programme's success is the focus on unlocking the potential in every learner.



TRUST PROGRAMMES

Our dedicated engineering teams ensure that targetted training programmes stay up-to-date.



TRUST PROGRAMMES

Engineering Plus

Engineering Plus is a full-time work experience and training programme offered to 16 - 18 year old school leavers.

Over the course of 10 months, candidates gain hands-on experience in North East engineering companies. They also undertake core elements of an apprenticeship framework i.e. NVQ and BTEC qualifications.

The programme provides real opportunities to practise engineering skills and explore engineering as a career choice. Having gained shop-floor skills and qualifications, candidates are fully prepared for progression to Advanced Apprenticeship employment.



▲ We have developed real expertise in bridging the gap between school and full-time employment.

Graduate Plus

For those that are taking A-Levels and want to follow an academic route i.e. an Engineering or Science degree, we have developed the Graduate Plus programme which provides on-going support and promotes continuous professional development.

Through The TDR Trust fund we can also offer financial sponsorship to selected candidates.

To ensure candidates are career focused at the start of their degree, the programme includes sixth-form work experience. Throughout their time at university and after graduating, our tailored programme involves working regularly with industry mentors.

One of the over-riding aims of Graduate Plus is to keep high-calibre individuals in the region and we achieve this through active partnership with North East employers.



▲ Before starting a Mechanical Engineering degree at Cambridge University, TDR Graduate Plus candidate **Calvin Wakeford** completed a full year's employment with British Engines and continued to "earn and learn" with them during university summer breaks.

TRUST PROGRAMMES

The mentoring and work experience available on our Trust programmes really makes a difference for learners. They value the opportunities to be involved in and see first-hand the world of work. They gain confidence and improved communication skills. They are motivated by the prospect of developing a rewarding career in science, engineering and manufacturing and through their training with TDR gain extra readiness to progress to sixth-form, Further Education, Higher Education or Advanced Apprenticeships.

The TDR Trust's training programmes are fully accredited by national qualification awarding bodies.



▲ Our training prepares young people for the challenges and rewards of a career in the engineering, manufacturing and science sectors.

TDR Training Ltd

The TDR ethos embraces training, teaching, learning, personal development and progression. Across our whole range of initiatives we advocate the benefits of lifelong learning. We encourage learners of all abilities and at every career level to fulfil their potential. We believe that skilled, motivated individuals are key to business success. Alongside our Trust programmes, our trading subsidiary, TDR Training Ltd, provides Apprenticeships and People Development programmes.

APPRENTICESHIPS

TDR has gained recognition and acclaim as an expert provider of Apprenticeships in Engineering, Manufacturing and Science, with upper quartile success rates. Our training teams are dedicated experts with knowledge and real-life experience of how industry works. TDR Apprenticeships ensure the most thorough grounding and strongest possible foundation for anyone committed to developing their career prospects. Our reputation for excellence, means that our Apprenticeships are widely acknowledged as providing best possible return on investment for employers and best quality training for Apprentices.

For further information, please see our **Apprenticeships** brochure.



PEOPLE DEVELOPMENT

Our People Development team has experience and expertise that extends from the shop-floor to the boardroom. Our professional training builds knowledge and develops skills in three key areas; **Health and Safety, Leadership and Management,** and **Business Skills.** We work in the private, public and third sector and for many businesses the training we provide is integral to their people development strategies. We have an enviable track-record and through our work we continue to maintain our reputation as providers of excellence.

For further information, please see our **People Development** brochure.

If you're looking for people that get involved, and that know about developing individuals and businesses, just call : 0191 491 1505 and the dedicated professionals at TDR will be ready to meet your needs.



The TDR Trust and TDR Training Ltd

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- **Trust Programmes**

exciting and continually evolving
STEM programmes for schools

- **Apprenticeships**

the best possible start to a career in
Engineering, Manufacturing or Science

- **People Development**

professional training for employers,
managers and employees



t : 0191 491 1505

www.tdrtraining.co.uk