

DENFORD

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INNOVATIVE EDUCATIONAL PROJECTS

The F1 in Schools Technology Challenge encourages students to explore a variety of engineering and manufacturing processes by using CAD/CAM and CNC technology to produce their own model F1 Car of the Future. As founding partners of the F1 in Schools Technology Challenge, Denford supply a wide range of equipment and training to get you to the starting line. In addition, Denford also support the 4x4 in Schools Technology Challenge & GT in Schools - The Sports Car Challenge.

Using 3D CAD (Computer Aided Design) software, the team **designs** a Formula One™ car of the future.

DESIGN



This National Challenge offers an exciting opportunity to encourage the development of our engineers of tomorrow, to engage young people in the complexities and challenges of design engineering, and to demonstrate the rewards of choosing engineering as a career.

Sponsored by:
The IET, JCB, Denford, SSAT, DATA, SEMTA, and Yorkshire Forward.

www.4x4inschools.co.uk

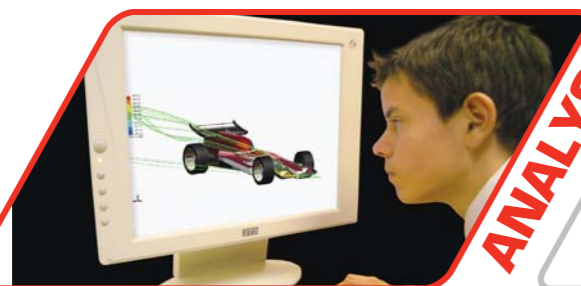


GT in Schools - The Sports Car Design Challenge is a competition, open to all UK based Secondary Schools, Colleges and (organised) Youth Groups, to design and manufacture CO2 powered model GT sports cars.

The process will follow closely the real life process that Engineers in automotive companies such as Jaguar follow, i.e. sketching, modelling, scanning/digitising, analysing, making, testing and racing.

Sponsored by:
Jaguar Cars

www.gtinschools.co.uk



ANALYSE

Aerodynamics are **analysed** for drag coefficient in a virtual reality wind tunnel using Computational Fluid Dynamics Software (CFD)



MAKE

Using 3D CAM (Computer Aided Manufacture) software, the team evaluates the most efficient machining strategy to **make** the car.

Aerodynamics are **tested** in wind and smoke tunnels.

TEST



www.f1inschools.co.uk

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RACE

Teams are judged on car speed, as well as supporting evidence of their design, verbal presentation and marketing display stand in "the pits".



To get you up and running, Denford also offer a range of CNC Routers, Lasers, Milling Machines and Lathes, together with tooling packages, workholding kits and courseware.

Total Commitment to Manufacturing Technology in Education and Training Worldwide. ISO9001 compliant.

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