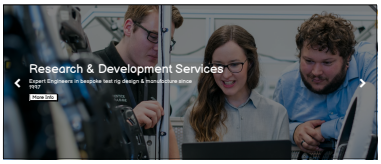
SCITEK

https://www.scitekconsultants.co.uk/

SCITEK

News | Contact

Home | Services | Products | Renewables | Sectors



Services

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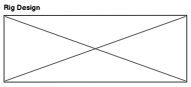
Rig Design

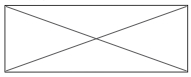


We can provide complete turnkey solutions covering design, manufacture, electrical design, instrumentation, control, data acquisition, safety and CE marking. Example test rigs we have worked on include:

- Spray rigs
- Pressure rigs
- Fuel rigs
- Combustion rigs
- Vibration and destructive testing
- Flow test rigs
- Imaging rigs

More Info

Test Facilities

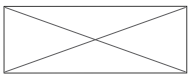


SCITEK runs a number of dedicated test facilities in-house

- Spray characterisation
- Airflow measurements
- Wear rig
- Vibration testing
- Acoustic chamber
- Gas turbine engine test facility

More Info

Image Analysis

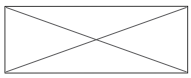


Gain insight with advanced vision-based solutions

- Computer vision
- Feature recognition
- 3D scanning
- Flow viz analysis
- Advanced Image Processing

More Info

Instrumentation & Control Systems



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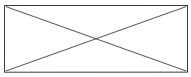
- Sensors
- Signal processing
- Test rig infrastructure

More Info

Fluid Mechanics

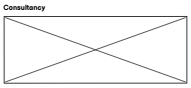


Expertise in all major laser diagnostic techniques:

- Computational Fluid Dynamics (CFD)
- Laser Doppler Anemometry (LDA)
- Phase Doppler Particle Analyser (PDPA)
- Sprays

More Info

Consultancy



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More Info

Renewables & Future Fuels

More Info

Use slightly different colour scheme for renewables section

Low-carbon power is increasingly becoming a priority for many of our customers, and at SCITEK, we are keen to get involved by providing R&D services which can help towards the achievement of a greener future. Areas we envision being able to help with:

Renewable Energy

- Hydrogen projects

Aero-engine Test Bed

- Emissions testing
- Synthetic Kerosene tests - high TRL
- Use of hydrogen

Small Modular Reactors

- An area that we are keen to be involved in

Products

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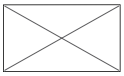
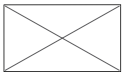


Seeders

Our industry leading liquid and powder seeding systems are for use in flows where optical instrumentation is used to measure flow velocity.

We have also produced custom seeders for large wind tunnels and for low tanks

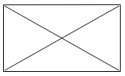
More Info



Spray-cone Instrumentation

Imaging device for measuring spray cone-angle of spray nozzles.

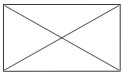
More Info



Enhanced Software Defined Telemetry System

(SDTS) for monitoring strain and temperature measurements in rotating engine parts during ground and flight testing.

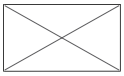
More Info



LDA Alignment Tool

Imaging tool for aligning laser anemometers during setup

More Info



Photogrammetry system

Scanning system for capturing the data of components through 3D reconstruction combined with state-of-the-art image analysis techniques.

More Info

About Us

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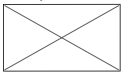
No Two Projects the Same



We do not shy away from complex, never been done before projects – this is what SCITEK is all about!

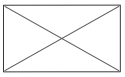
As all the test rigs that we build are bespoke, we can provide support for installations that we have not previously been involved with.

We have considerable experience in many different types of application ranging from laboratory scale research rigs to production facilities.

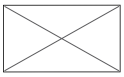
Highly-skilled, problem solving Engineers

Highly skilled staff – hired for their problem-solving mindset – with expertise across a wide range of specialisms such as fluids, vibration, noise, test and measurements.

This high specialism is combined with in-house manufacturing capability to supply genuine turnkey solutions.



Long History



Founded in 1997, we have picked up considerable experience along the way.

Over the years, we have been involved in many of the key industry innovations of our clients, whether it be emissions testing, X-Ray image analysis, innovations in aerosol designs of deodorants, fuel and spinning rigs, or design and build of a neutron radiography machine!

More About Us

Sectors

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Aerospace | Power Generation | Automotive | Pharmaceutical | Academia

Icons only indicative that each section will have an icon

We are able to develop a large range of test rigs for Aero Engine Manufacturers to use in the development of their Engines. From emission systems to fuel rigs, spray rigs, combustor test rigs, end of life component inspection and many more.

SCITEK also has an in-house Aero Engine test bed which we can run for clients to assess synthetic aviation fuels, alternative ways of reducing emissions, and gaining a better understanding of emissions from new fuels.

More Info

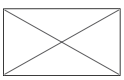
Not necessarily tabs, but would like to have the different sectors shown one by one to save on vertical screen space. e.g. https://hashtag.com

Projects

Carousel to scroll through many different projects worked on

STREAMLINE | dream | F3RST | STARDATE

News



We have moved!

21st October 2021

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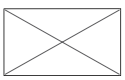
Read More



Enhanced Software Defined Telemetry system for ground and flight testing

21st October 2021

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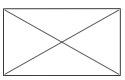

3D Mapping

21st October 2021

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Read More

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Something else

Another thing

Contact

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