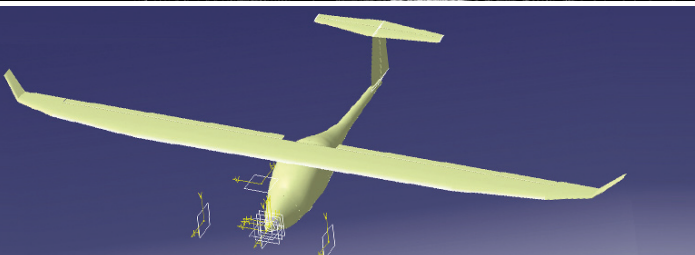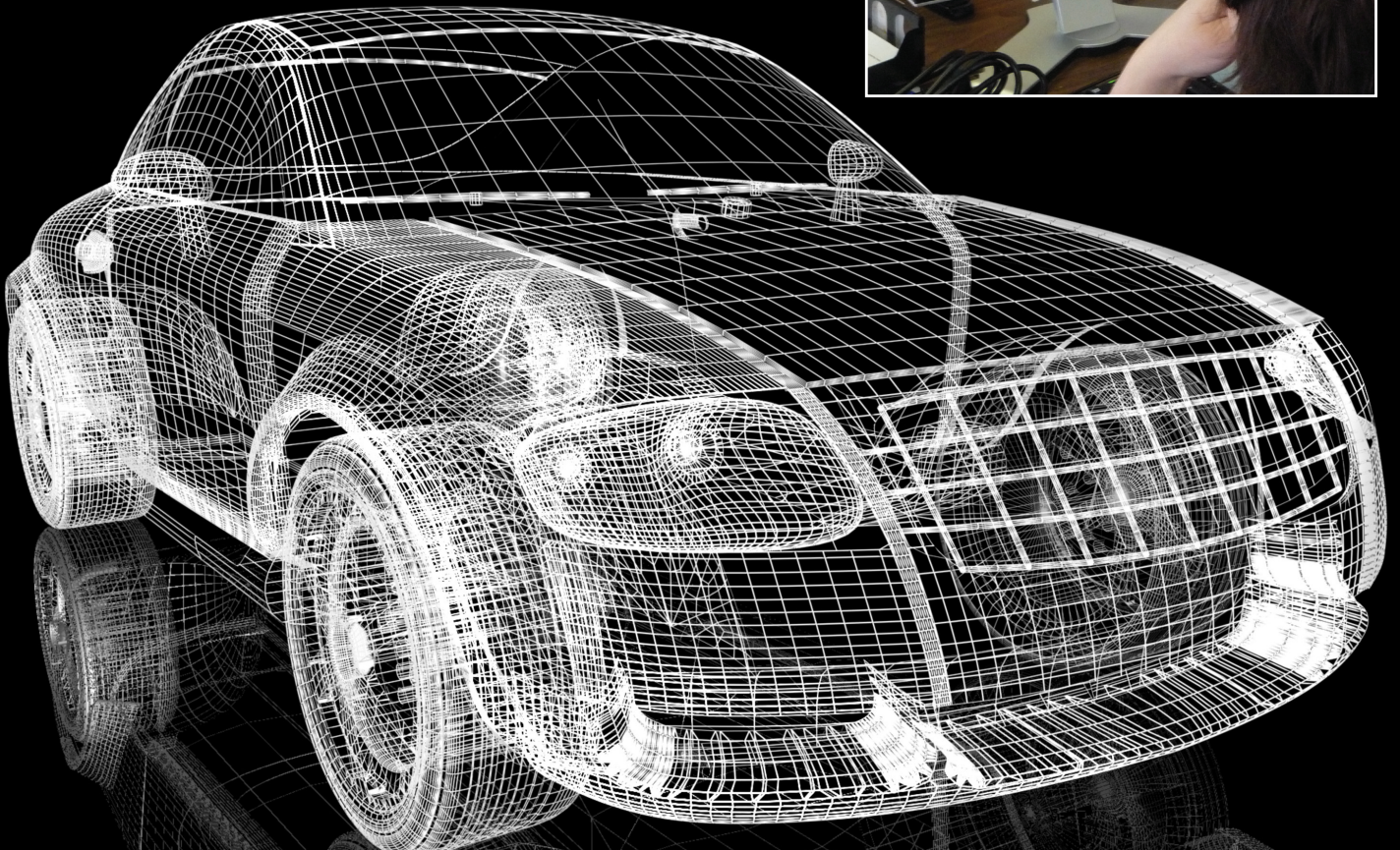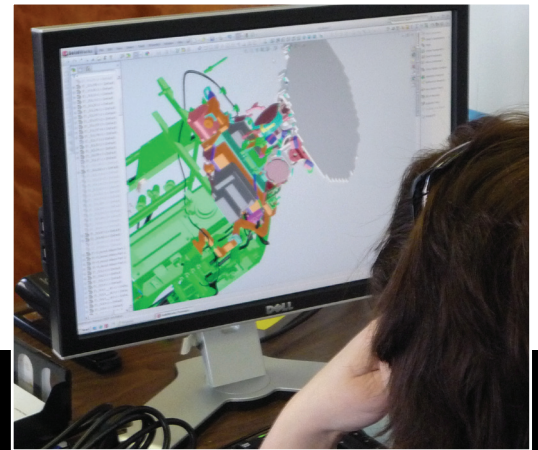# PeraSpires

PeraSpires Design & Development Programme

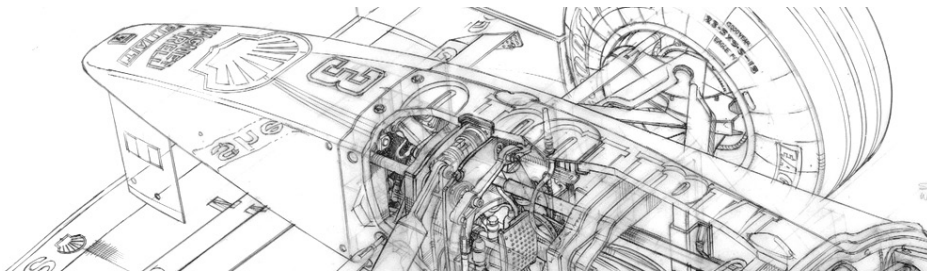Leading the way in computer aided design and development training

PeraSpires

Helping your Product Designers and Developers achieve their full potential

The PeraSpires Design & Development programme is a unique new training course. It is unique because it combines a new accredited technical higher level qualification in Manufacturing Research & Development with Dassault Approved CATIA V5/V6 Training.

Latest tools and techniques

This intensive one year training programme focuses on the latest tools and techniques used in the design, development and introduction of new products. It not only provides high level practical design skills using world leading software, it also integrates a platform which takes every learner on a journey through concept, design and into production. Integral elements include CATIA V5/V6, innovation and commercialisation, intellectual property, technical communication and advanced lean manufacturing techniques.

Two day residential induction

To enhance the experience of this course, we include a two day residential induction at Middle Aston House in Oxfordshire. This is a 17th century manor house set in 20 acres of grounds with lakes and woods, a relaxed and inspiring environment. Learners will gain understanding of the course, expectations, timelines and the process of accreditation and certification.

The end result...

...is an engineer equipped with the latest knowledge and skills. We ensure they are immediately productive and able to support customer demands of todays' global economy. Completion of the programme could also lead to entry into BEng Mechanical Engineering design and the BSc Product design type courses leading to membership of the Institute of Engineering Designers (IED).

Providing skills in every aspect of product design and development

The PeraSpires Design & Development programme has been designed to fill a significant gap in product design skills. It provides training in the principles of manufacturing that are so critical to the efficient development and market success of new products. The course is relevant to both existing employees looking to broaden their knowledge, and graduates looking to build on a degree with practical skills. The programme also suits engineers who may have been made redundant or are looking to up-skill.

Real world training

Every part of the programme has been developed alongside industry to ensure it covers all elements of the front end manufacturing process. Our training always uses relevant engineering projects from your chosen field and practical examples related to your industry. We can even incorporate real work projects into our training sessions.

The EAL Accredited Technical Qualification

The PeraSpires Design & Development programme encompasses theory-based classroom learning, assignments and a final research project to deliver the new EAL Accredited Technical Qualification. Each module is delivered by an industry expert with leading knowledge of the subject areas. Each assignment has been carefully developed to ensure theory and practical elements are aligned to ensure continuity throughout the programme.

Dassault Approved CATIA V5/V6 training

CATIA V5/V6 training is provided by a leading Dassault Approved provider with over 30 years' experience of working with major OEMs. The course has been developed to provide concise but comprehensive training to users of industry recognised engineering software suites. All elements are progressive so that skills can be developed to the highest levels in a systematic way. We show your employees how to use CATIA and how to apply it with known methods and industry best practices.

Extra learning if necessary

Due to the detail involved, we recognise a possible need to enhance a learner's ability to undertake some of the maths and science required. For this reason we are pleased to be able to offer two optional units to overcome any issues in this area.

Subjects include:

New Product Development

Composite Design

Quality and Business improvement

Health and Safety within a product development environment

Structural Analysis

Project Management for research and development

Electrics

Kinematics

Technical Communication

Innovation and Commercialisation

Geometric Dimension and Tolerancing

Metrology

Research Project

Supply Chain Management

Production Processes and Systems

Materials Engineering

Funding/Financial Support

Subject to availability and other criteria, elements of this programme may be eligible for a grant, loan, funding or other subsidy. Please ask for further details.

Next steps

For further information on the PeraSpires Design & Development Programme, contact us by calling Pera Training: **07787 283 892** or Spires Engineering: **01865 481650**

email: enquiries@peratraining.com
infor@spiresengineering.com

The Partners

Spires Engineering

Spires Engineering was established in 2004 primarily as a provider of Design Engineering and CAD solutions to industry. Spires Engineering supports major OEMs with their design needs as well as supplying 3D and PDM software training across the globe.

Pera Training

Pera Training provides customised real-world training to lower costs, improve efficiency and drive business growth. Last year alone Pera Training trained more than 5,500 learners in 350 companies, including global brands such as Barclays and Coca Cola Enterprises.

The PeraSpires Design& Development programme is aimed at individuals unable to gain full time employment due to their lack of employment history, ie college/university leavers. Typically the programme takes an individual from graduate/undergraduate level and through a journey that allows them to utilise systems (Catia v5/v6/pdm link) that would otherwise not be deployed unless they were in industry. In addition to this, 'niche' topics such as composites are taught in an effort to suit industry requirements. This programme can be seen as an alternative to an HND, but with 'Real Time' EXPERIENCE!

On completion every effort is made to assist leavers in gaining full time design/ stress roles.

After I completed my HND in Mechanical Engineering I made many unsuccessful applications to local engineering firms. They all gave the same feedback, that I lacked knowledge of CATIA V5.
I enrolled on the PeraSpire Design and Development programme and before I completed the course I was offered three design roles. The skills I learnt on the course allowed me to choose who I wanted to work for.

Carlo Tadiotto
Airbus Design Engineering.

Upon finishing my engineering degree I found it difficult in obtaining a full time job in the UK or my native country India. However after completing the PeraSpires Design and Development Programme I was able to get a full time job with Mahindra Satyam.

Sirisha Madhipattla Narayana
Design Engineer Mahindra Satyam

Once leaving university at Plymouth I found it very difficult to get a full time design job due to the lack of work experience I had. But then I heard of the PeraSpire Design & Development Programme and it gave me the confidence of applying my technical knowledge and experience within the Design Industry which consequently gave me the opportunity to work for Bladan Jets. Thank you PeraSpires.

Vasudeva Nimma