



<u>Question</u>	<u>Answer</u>
<p>What is TECHNIA's Engineering Centre of Excellence and how can it help me?</p>	<p>The Engineering Centre of Excellence provides innovative engineering solutions using the application of first principles alongside creative problem solving and the knowledge of advanced technologies. It offers a turnkey solution to your project needs, an extension to your own engineering team to help during peak workload, or a consultancy service to assist with any portion within that lifecycle.</p>
<p>We're unsure if our product is right for the market, are you able to assist with the definition of this before we spend too much on design and manufacturing services?</p>	<p>We are able to offer a full design idea review service, free of charge, before commencing any project work. Using our experience of engineering design, we are able to make recommendations relating to the specification and design direction of the project. This gives the foundations for detailed research and the definition of well practiced process methodology to ensure your project remains focused.</p>
<p>Do you offer just a design and modelling service? We like to be in control of the drawing design detail but we lack creative design capability and knowledge.</p>	<p>Our engineers thrive on creative problem solving, using past experiences and transferable skills to apply innovate solutions to problems. Of course, we can assist with the detail development of the design but are happy to help by solely providing concepts or an indication of design direction if desired.</p>
<p>Are you able to take concept models and create fully detailed working engineering drawings for manufacture?</p>	<p>With many years of design and drawing experience, our engineers are fully capable of understanding design intent from models and translating that into 2D manufacturing drawings, using the latest drawing standards such as BS 8888 or ASME Y14.5. Our understanding of the materials used and preferred manufacturing routes also means we are able to generate drawings with specific detail, pertinent to the part in question.</p>
<p>Are you able to take existing drawings and produce 3D models from them? We need to reverse engineer and develop a legacy product.</p>	<p>As with our detailed drawing service, the knowledge and experience of our engineers means we are able to interpret manufacturing drawings and take our specific detail pertinent to the development of 3D models. We are then able to utilise our well practices process methodology to define the part and its lifecycle to ensure developments can be made or legacy data brought up to speed.</p>
<p>Do you have prototyping capability?</p>	<p>Many years of engineering design and development has allowed us to build a core of well trusted suppliers in order to procure prototypes for your needs. We are able to source from a variety of materials, using different manufacturing processes, and with our knowledge of the systems are able to recommend the most suitable for your specific requirements</p>



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<p>Are you able to advise on such things as material selection or recommend preferred manufacturing options?</p>	<p>Our experience and constant professional development means our engineers are always using their knowledge of common or uncommon materials or processes to ensure that a design can achieve its greatest performance. This performance could be measured in terms of cost saving or functional gains, but either stems from an underlying ability to specify the best method to fulfil the design.</p>
<p>Do you offer a design optimisation service? We have a working design but it is too heavy and expensive to produce?</p>	<p>Whether it be via functional gains, weight reduction, or cost reduction, we can utilise practised processes to assess designs and focus development in areas where the biggest proportional gains will be, however small the margins. Our continuing professional development allows us to use knowledge from a number of industries to ensure that we can increase the performance of a design via transferable skills or concepts.</p>
<p>Do you have any industrial design capability. We have a working product but its looks don't suit the intended market. Our product needs some styling input through complex modelling and surfacing.</p>	<p>As design engineers, our focus is on achieving a design that is both functional and suitable. Our years of practice in 3D design allows us to generate complex models and utilise experience in surface modelling, gained from a variety of industry sectors. Our engineering experience allows us to make informed recommendations during this process in order to achieve good harmony between a design that is both functional and suitable for its market.</p>
<p>We have a prototype design which we have assembled but it doesn't function as we intended. Could you take the model and develop the design? We have run out of skills.</p>	<p>It is not always possible to achieve the best functional design at the first time of asking, especially if the product is new or uses untried technology. Prototyping and iteration is part of this process and through our experience of design over a vast array of projects and industry sectors, we can call on practised processes to assess the performance of the design and focus the development in order to achieve the best performance against specification.</p>
<p>Are you able take our existing drawings and re-dimension them in a different standard, applying GD&amp;T as appropriate?</p>	<p>With many years of design experience and in depth knowledge of drawing practices, our engineers are able to take any information or drawings and redefine to suit new requirements. As this area forms parts of our specialist training, we are often aware of even the most subtle difference in standards and can ensure finished drawings are applicable where desired.</p>