

# Echo Engineering



**Profile:** Echo Engineering manufactures and develops tractor and digger attachment products.

**Challenge:** The company wanted to develop a tree shear attachment to cut down trees. The attachment needed to work as a grab and be compatible with various tractor/digger configurations. The design needed to be lightweight and easy to manufacture.

**Solution:** Funded by the Invest NI Innovation Voucher scheme, Echo Engineering linked with Southern Regional College (SRC) Business Support Centre to design and develop their digger attachment. The voucher focussed on the design and development of the attachment. The task was to design a lightweight, bespoke structure that can easily be manufactured and can house all the various components required to run the tree shear. The attachment would also be required to attach to various diggers and work in a forestry environment. Once the new design was confirmed, a user manual and manufacturing drawings were created for the product. Manufacturing and assembly drawings were created from the CAD model, to ensure accurate manufacture.

**Benefits:** With the help of the Innovation Voucher scheme from Invest NI, Echo Engineering benefitted from the expertise at SRC's Business Support Centre to develop these new products. This has enabled the company to manufacture and supply high-quality products and launch their new tree shearing attachment to their customers