

# UK Student Designs a Brilliant Bicycle-Powered Lampshade System

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[Nottingham Trent University](http://Nottingham Trent University) student Mark Colliass has taken multi-tasking [transport](#) to a whole new level with a new lampshade-producing bicycle. For those who would like to bike their way to design, one simple resin-based lampshade can be produced with just a 40 minute ride. According to Mark, his revamped [bicycle](#) invention is not only a new mobile method of product design, but also a critique of today's wasteful throwaway culture.

Mark's bicycle uses a specially-designed rotational [moulding](#) rig that connects to the handlebars. Once the required Jesmonite bio-resin is poured into the mould, cyclists need only take a mere 40 minute jaunt around the neighborhood while centrifugal force pushes the resin to the sides of the mould, creating a hollow cylinder and resulting in a "pedal-made" [lampshade](#).

Mark explains that the idea behind the innovative project is to connect people with the manufacturing process so that the items made by the owners are more meaningful. "The feeling of taking the [lampshade](#) out of the mould is the best experience, when you realize it has worked," said Mark. "You definitely have this kind of personal attachment to it which you don't get with other objects.

Mark's bicycle-powered, lampshade-producing invention will be on display at the [Nottingham Trent University's exhibition 'Magic Light'](#), an exhibition of 40 lamps designed by local art and design students in Nottingham.

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