


## New Ultrasonic Nozzle Technology To Change The Way Water Cleans

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Work by a team of researchers at the University of Southampton has led to a revolution in the way water cleans. Whereas industries consume a lot of water, the amount of wastage that goes on is equally unprecedented. This new technology may just change water purification for the better.

Most industries' waste water is contaminated, a fact that makes them incur more costs while purifying, before they can release it to the environment.

The researchers, Professor Tim Leighton and Dr Peter Birkin's, have developed a device that works with cold water and minimal additives. The device consumes as little power as that used in a light bulb. It will certainly find application in various relevant industries. The technology has already been adopted by some industries through usage licenses.

*Society runs on its ability to clean. Ineffective cleaning leads to food poisoning; failure of manufactured products such as precision watches and microchips; and poor construction – from shipbuilding to space shuttles – since dirty surfaces do not bond. The impact in healthcare is huge – hospital-acquired infections, from instruments that aren't properly cleaned, cost the NHS £1 billion per year. There's a very obvious need for technologies that improve our ability to clean while saving on our most important resources, water and energy.*

**Professor Tim Leighton Of University of Southampton**

Industries that will find the device useful include hospitals, manufacturing industries, as well as homes. The device, compared to present technologies, uses very little water and power.