

## **SEEKING POST-DOCTORAL FELLOWS AND PHD STUDENTS IN ACOUSTICS**

The School of Mechanical Engineering is currently seeking suitably qualified Post-Doctoral Fellows and PhD students to undertake research projects in the field of acoustics and vibrations.

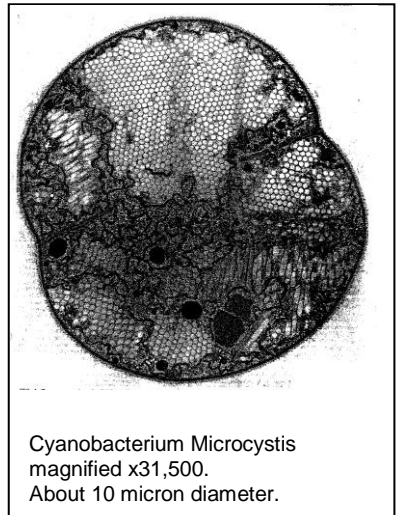
### **Ultrasound and Cyanobacteria**

Blue-green algae (cyanobacteria) is a nuisance problem that occurs in drinking water supplies and causes problems such as bad taste and odour. In extreme cases it can cause illness to humans. The School of Mechanical Engineering and SA Water have developed a technique to remove algae from water using ultrasound.

We are seeking a post-doctoral fellow to undertake research in this field along with our team of researchers from the university and industry. The ideal candidate would have experience in the design of underwater ultrasonic devices and associated electronics.

In addition, we are seeking at least 2 PhD students to undertake research in this area.

Please contact Dr. Carl Howard for further information.



## **SEEKING MASTERS AND PHD STUDENTS IN ACOUSTICS AND VIBRATIONS**

The School of Mechanical Engineering is seeking students interested in post-graduate research in acoustics, vibration and control. Some examples of research that the school undertakes includes:

- Use of ultrasound to control cyanobacteria
- Adaptive-passive and active noise control and vibration isolation
- Vibro-acoustic treatment to improve transmission loss of panels
- Thermo-acoustics
- Vibration Condition Monitoring
- Analysis of the acoustic properties of nano-materials
- Condition monitoring of rolling element bearings using acoustics
- Energy scavenging
- Optimisation of aero-acoustics and flow control
- And many more

If you are considering post-graduate study in these fields, please contact Dr. Carl Howard to discuss potential opportunities.

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