**Transcript**

***Dr Ashley Franks – Electric bacteria***

So, the hypothesis of my research is that bacteria are able to breathe and eat electricity to actually power their biological processes. And these things in nature and the environment are very important and to understand them is very important.

I hope to achieve an understanding of how this process works so that we can actually manipulate it for our benefit. So we hope to be able to then clean up waste more efficiently, produce energy more efficiently, and also then even maybe have an alternative to fuel and petroleum.

This will actually help and impact the community because we are able to more efficiently clean up our waste, we will actually be able to get rid of toxic environments, we’ll be able to help the bacteria clean them up. But the general understanding of how the whole ecosystem and the whole biosphere works will help us in making decisions for the future on what the best outcome for the planet is.