

ENGINEERING AND COMPUTING WITH PROFESSOR ELENA GAURA

TALKING POINTS

1. How many people around the world do not have access to electricity?
2. What does the HEED project draw on to achieve its aims?
3. Where in the world does Elena focus her research efforts and with whom?
4. Can you name three of the technologies/products/systems that the team developed to alleviate energy poverty?
5. How did the team build an evidence base to answer multiple research questions?
6. What is pervasive computing and what is it also known as?
7. What will the information collected from cookstoves help with?

ACTIVITIES YOU CAN DO AT HOME OR IN THE CLASSROOM

- To find out more about the HEED project and the work that Elena and the team have been doing, check out their dedicated website: <http://heed-refugee.coventry.ac.uk>
- There is loads of information out there dedicated to the Internet of Things, including this handy guide. There are informative webpages on pervasive computing, and the Futurology channel on YouTube is an exhaustive resource on digital technologies, including a playlist of computing videos, beginning with a history of computing through to pervasive computing in the future.
- The Royal Academy of Engineering has some Guiding Principles for Sustainable Development. The document is comprehensive and is aimed at existing academic staff. However, it is certainly worth reading through to gain a feel for the role engineering can play in sustainable engineering. Turn to the introduction and read on if it is something that appeals: <https://www.raeng.org.uk/publications/reports/engineering-for-sustainable-development>
- The Engineering Council has a similar document which lists six sustainability principles to guide and motivate engineers. Some of what it says echoes comments made by Elena, particularly regarding making the world a better place: <https://www.engc.org.uk/standards-guidance/guidance/guidance-on-sustainability>

