

# Case Study

## Work Placement – Feasibility of installing a water source heat pump at Llandaff Campus

### Key Points

- This Real World project allowed students to apply for one of five work placement teams based with the Sustainability Engagement Manager and Energy & Environment Engineer.
- Issues of sustainability are positioned with constraints and difficulties that the students would need to overcome, illustrating to the students the context within which sustainability has to practice.
- The need for scrutiny, in addition to economic and environmental considerations, when providing generalised sustainability advice within the context of Cardiff Met sites was explored.

### Who?

The Real World work placement, a level 5, for BA Business and Management students. The projects were designed for students on the Sustainability, Marketing and Finance pathways, with the opportunity to conduct research, analyse the issues identified and provide realistic solutions with the potential to directly influence sustainability initiatives on Campus.

### Why?

Cardiff Metropolitan University recognises the importance of the role it has to play in environmental management of its estate and in promoting principles of sustainability across all activities, including teaching and research. The University manages and controls its environmental risks in a sustainable manner by complying with relevant legislation and adopting where appropriate best practice. Cardiff Metropolitan recognises a wide definition of sustainability, based on engaging in development that meet the needs of the present, without compromising the ability of future generations to meet their own needs.

The University is continuously looking at how it can improve sustainability and reduce its carbon footprint, the placement gave student groups the opportunity to work collaboratively (virtual / online) on a range of projects within the sustainability field in relation to surroundings they were familiar with.

### How?

After applying for a position in their chosen subject, seven students completed research on internal operations and considered innovations and improvements which could work towards a carbon neutral future for Cardiff Met in relation to the feasibility of installing a water source heat pump at Llandaff Campus. Due to Covid-19 the eight week work placement was completed on Microsoft Teams, with weekly / regular meetings demonstrating ideas and progress on tasks allocated. The final element of the placement was to present group findings with an oral presentation and short report.

### Key Points

- Authentic, learner centred, project based pedagogies prompted direct student engagement with a range of real world sustainability issues faced by Cardiff Met and its students.
- Students worked with actual clients and target user groups to create real solutions to real issues that are being taken forward and implemented by the institution.

### Outcomes

The Real World Project encouraged students to consider the role they and their discipline can play in prompting and influencing meaningful sustainability oriented behavioural change. By developing and promoting real world solutions to genuine problems that had the potential for implementation and thus achieve a lasting impact, it was clear that the vast majority of students became emotionally invested in their project outputs and accordingly developed a strong sense of ownership and value in their proposed solutions – evidence of effective experiential learning.

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