

# Report from participating in INORE 2018 symposium

Mohammed Alaa Almoghayr, ICIT, 23/11/2018

## Purpose & Description

I was awarded £100 from the MASTS Small Grants Scheme to cover the travel expense to participate in INORE 2018 symposium. The International Network on Offshore Renewable Energy (INORE) is an association of postgraduate students, postdoctoral researchers, and other professionals at early stages of their careers, working in the fields of offshore wind, wave, tidal and ocean thermal energy conversion.

The purpose of my participation in INORE 2018 is to meet and collaborate with like-minded individuals from around the world specialising in offshore renewable energy.

The fund was used to cover travel expense from Orkney to Aberdeen by ferry, then by train from Aberdeen to Edinburgh where we started the first part of the 17th INORE Symposium. Then after finishing the Symposium, I used the rest of the fund to travel back by train from Edinburgh to Aberdeen, then flying from Aberdeen to Orkney.

Type of expense	Cost
Ferry	£16.38
Train	£31.75
Flight	£54.98
Total	£103.11

## Outcomes

Intended outcome	Description
Exchange of knowledge and experience regarding numerical modelling	I had very useful discussions with other PhD students who use numerical modelling tools as part of their research.
Exchange of knowledge and experience Regarding tidal energy assessment and tidal arrays optimisation.	We visited Nova Innovation, and we had the chance to hear from them about their various tidal energy development projects and layout configuration of tidal arrays. Also, one of the collaborative activities we had was about installing and running DTOcean, which is a very useful tool for tidal arrays optimisation.

Exchange of ideas with other PhD students and early stage researchers	I had the chance to meet other PhD students who work on topic very close and related to my project. Through various discussions, I got better understanding of different turbulence models, and various optimisation algorithms such as Genetic Algorithm.
Get more involved in ORE activities	Besides the various activities we had during the symposium week, such as presentations, visits, collaborative activities..etc, I volunteering to join the INORE committee as an Outreach Coordinator

### **Future plans**

The outcomes above will contribute towards the success of my PhD project, and to build collaborative relationship with other PhD students and early stage researchers.

Thank you to MASTS for this opportunity.