

BWR Hub

Boiling Water Reactor
Research Network

Feasibility Study Overview

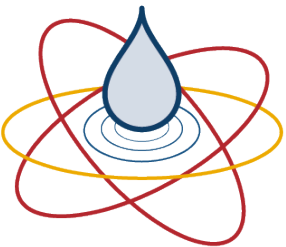


Imperial College
London

HITACHI



Llywodraeth Cymru
Welsh Government

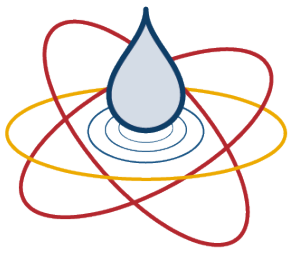


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“The purpose of the BWR Research Hub and Network is to enable the academic and industrial communities of Wales and the wider UK to deepen and enhance their understanding of BWR technology, and participate in research and development relating to this and future generation of BWRs.”





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Enquiries:

debbie.l.jones@bangor.ac.uk
n.waterman@imperial.ac.uk

Application for a Feasibility Study Leading to BWR Research Project

Feasibility Projects allow a preliminary investigation of a potential research project. They will typically be completed in less than 3 months, be conducted by a postgraduate student under supervision and result in a report which either kick-starts a research project or rejects the potential project.

Funding of up to £5,000 per project is available to cover the direct costs of the time spent by the student and supervisor. Each project's deliverable is a report which should either form the basis of a full-scale research proposal or explains why the project was not considered to be viable enough to take further.

NB: £5000 is the maximum sum available per project and the sum requested should reflect the activities to be covered by the Feasibility Study (see Item 6 below).

If you wish to apply for a funded Feasibility Study on a research project relevant to the needs of BWR Reactors, please complete this form and return it to: debbie.l.jones@bangor.ac.uk and n.waterman@imperial.ac.uk. Please attach brief CVs of the people involved in the work with your e-mail.

1. Project Title:

2. Name of supervisor:

3. Name of person conducting work (if known):

4. Anticipated start and finish dates:

Start: _____ End: _____

5. Brief outline of the proposed project. (More details, including diagrams may be appended, but do not attempt to write the proposal for the full-scale project which you hope will follow after completion of the Feasibility Project.)

6. Reasons for conducting the Feasibility Study. How much funding is needed for each activity e.g. Preliminary evaluation of alternative research strategies, definition of equipment and software required for the full-scale project, brief review of recent relevant published research, & etc.

Feasibility Studies

- To be completed in roughly 3 months
- Funding of up to £5,000 per project
- Allows preliminary investigation into a potential research project
- Generates a report which either kick-starts a research project or rejects the potential project.

www.bwrhub.ac.uk/en/research



- Modelling of film dryout critical heat flux (CHF) for BWR Applications – *Imperial College London*
- Integrated compound semi-conductor for gamma-ray spectrometry – *Cardiff University*
- Possibility of using mixed peridynamics and finite element methods to model accident tolerant fuel performance – *Imperial College London*
- Virtual Reality Demonstrator of an Advanced Boiling Water Reactor (VRABWR) – *Bangor University*
- Laser coating of ordered Y_2O_3 layer on Zircaloy-4 surface for enhance accident tolerance – *Bangor University*
- Laser Welding of SiC ceramic to SiC ceramic composites for Nuclear Applications – *Coventry University*
 - Nuclear Communities – *Bangor University*