**RSO Materials Science and High Heat Generating Wastes**

 **PDRA Call: Application form**

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| Project title | Understanding the Mechanisms of Zirconolite Leaching  |
| Investigator(s) |  |
| University / Organisation |  |
| Lead investigator contact details | Address |  |
| Tel. no |  |
| Email |  |
| Has the lead investigator received funding from NWS previously? | Y/N |
| If yes, provide details |  |

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| **List the main objectives of the proposed project** (max 100 words) |
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| **Summary** (max 500 words) Describe the proposed project in simple terms in a way suitable for a general audience |
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| **Confirm that the PDRA project would** **start in July 2024 and complete in 24 months by July 2026.**  |
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| **Confirm that you will accept the NWS terms and conditions if awarded funding** |
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| **Provide clear details of the proposed research and provide a timeline for the proposal with key milestones. (Note, we are expecting the project to last around 24 months)** Please provide a clear strategy for delivering, analysing and synthesising appropriate data from experimental work should be detailed including details of reports, presentations and publications that are expected to arise.Responses should include:* A demonstrable expert understanding of the challenge area, referring to the research brief;
* A project plan / Gannt chart showing key phases of work, milestones and deliverables. NWS will implement a staged payment plan covering the deliverables.
* Clearly defined input / time / resources that would be required from NWS, to support or enable the project, such as subject matter expert meetings, security clearance;
* Identify any major risks to the research and mitigation that can be considered against these risks, including any risks of the research to be extended past agreed period of time;
* Applicant guidance: Max 2500 words/ 5 pages, A4 Arial 11 font, plus a supporting Gantt chart.
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| **Please outline how the proposed research builds on existing knowledge and practice.** Clearly articulate where the proposal builds on existing understanding in the field, and how the proposal considers any changes that have taken place (technical, political, societal, etc) since any previous work in the topic was carried out and how the provided proposal is new research, not previously carried out in this context. Applicant guidance: 1 page max/ Arial 11 font. |
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| Please describe how the learning gained may be best communicated with the public to support wider understanding of the work’s influence on GDF safety.Describe how the learning outcomes of the project could provide reports, papers or other communication that enable interested parties to understand how waste product evolution impacts the safe delivery of a UK GDF.Applicant guidance: 1 page max/ Arial 11 font. |
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| **Please show how the supervisory team has the required expertise in the relevant areas.**This section will be assessed in relation to career stage and experience. The inclusion of early career researchers, and / or researchers new to the nuclear industry, in the supervisory team is welcomed.Applicant guidance: Half a page max (Text 11 Arial/ 250 words approximately). Please also attach a 1-2 page CV for the PI. |
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| **Skills and capability generation** Identify the skills that will be developed by the proposed work and why they are relevant to the future of RWM.Show how skills will be developed within the wider supervisory team. Applicant guidance: Half a page max (Text 11 Arial/ 250 words approximately). |
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| **Please provide a costed proposal, identifying additional ‘in-kind’ contributions which you can bring to the project. Note that the total indicative budget requested from NWS is £350,000.** |
| **Fund heading** | **Description (itemised to the nearest £1K)** | **Cost (£)** |
| **Researcher salary** |  |  |
| **Investigator salary and overheads** |  |  |
| **Travel & Subsistence** |  |  |
| **Consumables** |  |  |
| **Directly allocated costs** |  |  |
| **Other** |  |  |
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| Please add details of funding gearing that you will bring to the project, either anticipated or confirmed (e.g. support for analysis, beamtime access and value). If applicable, demonstrate ability to secure any further required funds or in-kind contributions to enhance the project. Include evidence of support where relevant. |
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