Plan Overview

A Data Management Plan created using DMPonline

Title: Dynamic characterisation of porous engineering fluids with low-field MRI

Creator: Neil Robinson

Principal Investigator: Neil Robinson

Data Manager: Neil Robinson

Project Administrator: Neil Robinson

Affiliation: Queen's University Belfast

Template: DCC Template

Project abstract:

This project will employ MRI velocity imaging to visualise and quantify the local mass transport and hydrodynamics of porous liquids under flow conditions within industrially relevant packed beds.

ID: 174131

Start date: 01-10-2025

End date: 30-09-2027

Last modified: 26-03-2025

Copyright information:

Dynamic characterisation of porous engineering fluids with low-field MRI

Data Collection

What data will you collect or create?

Experimental MRI data will be collected from laboratory based experimental measurements.
Raw data will be stored as CSV.
Images will also be stored as PDF.

How will the data be collected or created?

Data will be created through experimental measurements using laboratory equipment connected to a laptop.

Documentation and Metadata

What documentation and metadata will accompany the data?

High value data will be archived as supplementary information which will accompany publications arising from this project

Ethics and Legal Compliance

How will you manage any ethical issues?

There are no ethical issues

How will you manage copyright and Intellectual Property Rights (IPR) issues?

There are no copyright or IP considerations

Storage and Backup

How will the data be stored and backed up during the research?

Data will be stored on the cloud and backed up to portable hard drives

How will you manage access and security?

No sensitive data will be collected during this project
Cloud data will have read/write access assigned only to the project leader. Portable hard drive backups will be securely stored in the project leader's office

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

Selected experimental measurements

What is the long-term preservation plan for the dataset?

High value data will be archived as supplementary information which will accompany publications arising from this project

Data Sharing

How will you share the data?

High value data will be available as supplementary information which will accompany publications arising from this project

Are any restrictions on data sharing required?

there are no restrictions

Responsibilities and Resources

Who will be responsible for data management?

Project leader (Dr Neil Robinson)

What resources will you require to deliver your plan?

Cloud storage and a portable hard drive for back up