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## 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:**

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# Dynamic characterisation of porous engineering fluids with low-field MRI

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## 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