Plan Overview

A Data Management Plan created using DMPonline

Title: NANOVERSE: Nanoscale Access to Optical, Vibrational & Electronic Real-Space Environments

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Funder: Engineering and Physical Sciences Research Council (EPSRC)

Template: EPSRC Data Management Plan Customised By: University of Manchester

Project abstract:

NANOVERSE will create the UK’s first open-access facility for broadband nanoscale optical spectroscopy: ‘Nanoscale Access to Optical, Vibrational & Electronic Real-Space Environments’. It will provide continuous “colour vision” from visible to terahertz wavelengths, with nanometre spatial resolution and operation in ambient, liquid or cryogenic environments. Researchers will observe and control photon, electron and atom interactions in materials and devices in real time and under operating conditions, accelerating impact across quantum, semiconductor and connectivity technologies, clean energy and healthcare.

ID: 210365

Start date: 01-03-2027

End date: 28-02-2029

Last modified: 03-09-2026

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NANOVERSE: Nanoscale Access to Optical, Vibrational & Electronic Real-Space Environments

Manchester Data Management Outline

1. Will this project be reviewed by any of the following bodies (please select all that apply)?

- Funder

2. Is The University of Manchester collaborating with other institutions on this project?

- Yes - Part of a collaboration and owning or handling data

For the duration of this project, we will not be handing external data. However, NANOVERSE is a user facility, so we will consider external data in our management plan.

3. What data will you use in this project (please select all that apply)?

- Acquire new data

4. Where will the data be stored and backed-up during the project lifetime?

- University of Manchester Research Data Storage Service (Isilon)
- University of Manchester Data SafeHaven

5. If you will be using Research Data Storage, how much storage will you require?

- > 8 TB

6. Are you going to be receiving data from, or sharing data with an external third party?

- Yes

7. How long do you intend to keep your data for after the end of your project (in years)?

- 5 - 10 years

Guidance for questions 8 to 13

Highly restricted information defined in the Information security classification, ownership and secure information handling SOP is information that requires enhanced security as unauthorised disclosure could cause significant harm to individuals or to the University and its ambitions in respect of its purpose, vision and values. This could be: information that is subject to export controls; valuable intellectual property; security sensitive material or research in key industrial fields at particular risk of being targeted by foreign states. See more examples of highly restricted information.

If you are using 'Very Sensitive' information as defined by the Information Security Classification, Ownerships and Secure Information Handling SOP, please consult the Information Governance Office for guidance.

Personal information, also known as personal data, relates to identifiable living individuals. Personal data is classed as special category personal data if it includes any of the following types of information about an identifiable living individual: racial or ethnic origin; political opinions; religious or similar philosophical beliefs; trade union membership; genetic data; biometric data; health data; sexual life; sexual orientation.

Please note that in line with data protection law (the UK General Data Protection Regulation and Data Protection Act 2018), personal information should only be stored in an identifiable form for as long as is necessary for the project; it should be pseudonymised (partially de-identified) and/or anonymised (completely de—identified) as soon as practically possible. You must obtain the appropriate ethical approval in order to use identifiable personal data.

8. What type of information will you be processing (please select all that apply)?

- Commercial, government, high value intellectual property, or other highly restricted data

9. How do you plan to store, protect and ensure confidentiality of any highly restricted data or personal data (please select all that apply)?

- Store data on servers, computers or devices not connected to an external network
- Store data in encrypted files, folders, computers or devices
- Store data on University of Manchester approved and securely backed up servers or computers
- Impose suitable data sharing and collaboration agreements
- Access data hosted by the University of Manchester via its secure Virtual Private Network (VPN)
- Access data hosted by a third-party data provider via their secure facilities (e.g. the UK Data Service Secure Lab)

10. If you are storing personal information (including contact details) will you need to keep it beyond the end of the project?

- Not applicable

11. Will the participants' information (personal and/or sensitive) be shared with or accessed by anyone outside of the University of Manchester?

- Not applicable

12. If you will be sharing personal information outside of the University of Manchester will the individual or organisation you are sharing with be outside the EEA?

- Not applicable

13. Are you planning to use the personal information for future purposes such as research?

- No

14. Will this project use innovative technologies to collect or process data?

- Yes, and innovative technologies will not collect or process personal data (please list the innovative technologies below)

State of the art microscopes and spectroscopy systems

15. Who will act as the data custodian for this study, and so be responsible for the information involved?

Jessica Boland

16. Please provide the date on which this plan was last reviewed (dd/mm/yyyy).

2026-09-03

Data Collection

What data will you collect or create?

Question not answered.

How will the data be collected or created?

Question not answered.

Documentation and Metadata

What documentation and metadata will accompany the data?

Question not answered.

Ethics and Legal Compliance

How will you manage any ethical issues?

Question not answered.

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

Question not answered.

Storage and Backup

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

Question not answered.

How will you manage access and security?

Question not answered.

Selection and Preservation

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

Question not answered.

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

Question not answered.

Data Sharing

How will you share the data?

Question not answered.

Are any restrictions on data sharing required?

Question not answered.

Responsibilities and Resources

Who will be responsible for data management?

Question not answered.

What resources will you require to deliver your plan?

Question not answered.