



Welcome to the NFDI4Ing community survey. We appreciate your participation.

Data is the raw material of the future. FAIR data, data quality and research data management (FDM) are therefore experiencing a steady increase in importance. How we do research is changing. We would like to accompany you in this process of change and ideally support you in it. Therefore, with the help of this survey, we want to tailor our activities to your needs.

It will take approximately 10 to 15 minutes to complete.

The survey will run until the end of November.

## Section A: Data Literacy Right from the Start

A1. Which statements regarding your competencies in the following areas of research data management are true?

	Never heard	Known by name	Sporadically applied by me	Systematically applied by me
FAIR principles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Versioning of software & documents (e.g. with Git)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Documentation for re-use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collecting metadata	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open data formats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Licensing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Publication / Data repositories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Archiving	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

A2. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) FAIR principles

Informal briefing

Self-study

Workshops / Lectures



**A3. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Versioning of software & documents (e.g. with Git)**

Informal briefing

Self-study

Workshops / Lectures

**A4. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Documentation for re-use**

Informal briefing

Self-study

Workshops / Lectures

**A5. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Collecting metadata**

Informal briefing

Self-study

Workshops / Lectures

**A6. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Open data formats**

Informal briefing

Self-study

Workshops / Lectures

**A7. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Licensing**

Informal briefing

Self-study

Workshops / Lectures

**A8. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Policies**

Informal briefing

Self-study

Workshops / Lectures



**A9. How or where did you acquire your skills in the respective field? (Leave selection blank if not applicable) Archiving**

Informal briefing

Self-study

Workshops / Lectures

**A10. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable) FAIR principles**

Informal briefing

Self-study

Workshops / Lectures

**A11. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable) Versioning of software & documents (e.g. with Git)**

Informal briefing

Self-study

Workshops / Lectures

**A12. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable) Documentation for re-use**

Informal briefing

Self-study

Workshops / Lectures

**A13. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable) Collecting metadata**

Informal briefing

Self-study

Workshops / Lectures

**A14. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable) Open data formats**

Informal briefing



Self-study

Workshops / Lectures

**A15. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable)Licensing**

Informal briefing

Self-study

Workshops / Lectures

**A16. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable)Policies**

Informal briefing

Self-study

Workshops / Lectures

**A17. What training options are you aware of at your institution on the following topics in the area of research data management? (Leave selection blank if not applicable)Archiving**

Informal briefing

Self-study

Workshops / Lectures

**A18. Do you yourself teach competencies from the field of research data management, for example, in workshops or lectures?**

Yes

No

**Section B: Governance Concept for FDM in Engineering**

**B1. Does your institution have recommendations or rules for handling research data?**

Yes

No, but it's planned.

I don't know.



**B2. Does your institution offer you support and advice on how to handle research data.**

Yes

No, but it's planned.

I don't know.

**B3. Does your institution have a the role of a data steward?**

*The data steward is a person within an institution who is responsible for the quality of the data and data sources. In the context of data stewardship, he or she is responsible for the technical implementation of the strategic requirements of data governance with regard to data quality. Together with the Data Owner, the Data Steward assumes an important key position in the implementation of Data Governance. This person is the first point of contact for questions or problems relating to data quality.*

*The tasks of the data steward are diverse and range from identifying the data and data sources to be managed to analyzing the quality of the data and metadata to troubleshooting data problems or answering questions regarding data quality.*

Yes

No, but it's planned.

I don't know.

**B4. Does your institution offer you further training opportunities on the subject of FDM?**

Yes

No, but it's planned.

I don't know.

**B5. Does your institution offer you any other support (not mentioned so far) in dealing with research data?**

**B6. In which way would you like to see more support from your institution?**

Support from e.g. Data Stewards

Formal policies for handling research data

Education

Software service for publications

Software service for archiving

Software service for versioning (e.g. Gitlab)



Other

Other

## Section C: Handling of Research Data

**C1. Do you follow a data management plan (DMP) in your research projects?**

No, I was not aware of this possibility.

No, I do not plan to do it in the near future.

No, but I intend to.

Yes

**C2. Are you aware of any research data repositories?**

No

Yes, multidisciplinary (e.g. Zenodo, Figshare)

Yes, subject specific

**C3. Did you use data from research data repositories yourself, yet?**

No, I was not aware of this possibility.

No, I do not plan to do it in the near future.

No, but I intend to do.

Yes

**C4. In principle, would you be willing to publish your research data in a repository?**

No, I do not plan to do it in the near future.

Yes

Other

Other



**C5. Did you already publish data yourself using a research data repository?**

No, I was not aware of this possibility.

No, I do not plan to do it in the near future.

No, but I intend to.

Yes

**C6. Did you yourself already submit or provide research data in combination with the manuscript to a journal?**

No, I was not aware of this possibility.

No, I do not plan to do it in the near future.

No, but I intend to.

Yes

**C7. Did you cite any research data yourself, yet?**

No, I was not aware of this possibility.

No, I do not plan to do it in the near future.

No, but I intend to.

Yes

**C8. For what reasons did you not publish research data in repositories yet?**

Data not relevant

Too much effort for data preparation

Not allowed by my facility

Not allowed by the client/customer

Publication is not required

Publication has no additional value

Other

Other



## Section D: General Questions about Research Data

**D1. Do you know and use software (online or offline) to support research data management?**

I am not aware of any of such software.

I am aware of such software, but I do not use it.

I use such software.

**D2. What software (online or offline) do you use to support research data management?**

**D3. What software (online or offline) do you use to support research data management?**

**D4. Where do you store your research data?**

Private computer

Office/Work computer

Server in the institute (or equivalent)

Server of the university (parent institution)

External at a scientific institution (cloud)

Externally with a commercial provider (cloud)

**D5. Where do you store your data in addition to the previously mentioned?**

External hard disk

Flash drive

DVD, CD, Blu-Ray



Other

Other

## Section E: Need for Services in RDM

We would be very pleased if you would contact us at Task S-7-1 (e-mail: jens.freund@tu-darmstadt.de). By describing your use case and possible literature needs, you would help us a lot.

### E1. In what areas of the research data management (RDM) would you like to get support?

- Entire FDM process
- Plan RDM in context of a research project
- Collect data
- Organize data
- Standardize data
- Collect meaningful metadata
- Process and analyze data
- Sharing and publishing data
- Archive data
- Reuse data
- Other

Other



**E2. Do you know of NFDI4Ing?**

No

Yes, i have heard of it before.

Yes, NFDI4Ing is a term I am familiar with.

Yes, I am a user.

Yes, I am actively involved in NFDI4Ing (collaboration).

Other

Other

**E3. Did you already receive support from NFDI4Ing in dealing with research data or did you use offers of NFDI4Ing?**

Yes

No

**E4. What type of support did you receive or what type of service did you use?**

Technological

Organizational

Events

Education

Other

Other

**E5. What services would you like to see from NFDI4Ing?**

Advice on general questions regarding the handling of research data

Advice on publishing and citing research data

Advice on technical issues (e.g. metadata, standards, long-term archiving)



Advice on legal issues (e.g. limitations on access, handling of sensitive data, use of licenses)

Assistance with specific matters (e.g., submitting a manuscript to a journal that specifies publication of research data).

Assistance in the creation of a data management plan, if one is requested by the funding agency

A secure and reliable storage space for my research data

I do not need any services

Other - in the next step you have the opportunity to specify your needs more precisely

**E6. What other services would you like to see from NFDI4Ing?**

**E7. In the context of Task S-7-1, a service will be developed to enable text and data mining (TDM) in engineering literature. TDM refers to the automated, computer-assisted analysis of large amounts of text using a variety of techniques, such as identifying topics in a collection of texts through topic modeling. One difficulty with TDM analyses is often the lack of access to the desired machine-readable text material. Task S-7-1 addresses this issue and aims to facilitate this access by building a digital corpus of engineering literature. In this context, we would like to ask whether you see a need for computer-assisted, automated analysis of literature (e.g., journal articles, conference proceedings, research articles) in your research and whether you may already have concrete literature needs?**

Yes

No



## Section F: General Information

### F1. What field do you belong to?

- DFG 41 (Maschinenbau und Produktionstechnik / Mechanical engineering and production technology)
- DFG 42 (Wärme- und Verfahrenstechnik / Heat and process engineering)
- DFG 43 (Materialwissenschaft und Werkstofftechnik / Materials science and materials engineering)
- DFG 44 (Informatik, System- und Elektrotechnik / Computer science, system and electrical engineering)
- DFG 45 (Bauwesen und Architektur / Civil engineering and architecture)
- Other

Other

### F2. In which fields of activity do you mainly work?

- Research
- Teaching / Further Education
- Administration
- Libraries / Infrastructure Operators
- Economy
- Other

Other

### F3. Which statement is most likely to be true for you?

- I mainly do scientific work.
- My activities are mainly in the NON-scientific field.



**F4. Which category of professionals do you belong to?**

Professor

Junior Professor

Associate Professor (Privatdozent\*in)

PostDoc

PhD student / Research Assistant

Other

Other

**F5. How many years have you been working in research?**

< 3 years

3 to 6 years

6 to 10 years

> 10 years

**F6. What age group do you belong to?**

< 30 years

30 to 45 years

46 to 60 years

> 60 years



**F7. Which facility or institution do you belong to?**

University (of Technology)

Technical University

University of Applied Sciences

Non-university research institution

Agency

Company (Economy)

Other

Other

## **Section G: End of the Survey**

**G1. Thank you for your participation in the survey! You have answered all the questions. Is there anything else you would like to tell us?**

**Thank you very much for your participation in our community survey. We will publish the results of the survey on the NFDI4Ing website.**

**In case you want to get notified about the results, please consider subscribing for our newsletter.**

