How can we help scientists to publish their code?

I have been working with the Research Software Engineering group at the University of Manchester to develop recommendations for overcoming the technical barriers that may prevent scientists from publishing their code. This questionnaire aims to evaluate these recommendations with scientists, to determine how effective they are perceived to be.

	a your job title? If your oval.
	PhD student
	Research Associate
	Software engineer
	Academic
	Other:
2. What is	s your research area?
Storing	code in online repositories
The difficulty deposit code	of using online repositories sometimes deters scientists from using them as places to e.
	sitories had a simple, easy to use GUI, alongside the current command line/GUI ces, would this encourage scientists to use them?
Mark on	nly one oval.
	Yes
	No
	Other:
docume	it be helpful for the repository to 'track changes' to a script, so they don't have to be ented manually? nly one oval.
,	Yes
	No
	Other:

5. Which of the following types of training or support would you find useful for learning to use repositories?
Tick all that apply Tick all that apply.
Practical workshops.
Online training
Guidance/details about the various types of repositories and their features
A glossary of the terminologies relating to repositories
Other:
6. Would you like your institution to have a central repository, which could be used to store all data and code internally?
Mark only one oval.
Yes
○ No
Other:
7. Would you like a central internal repository to be compatible with an external one, such as Github, so any code and data can be published externally when required, and anything updated in an external Github repository would automatically appear in the internal one? Mark only one oval.
Yes
N.
() No
Other:
Other:
Other: 8. Comments: Fraining in computational research
Other:
Other: 8. Comments: Fraining in computational research 9. In which of the following areas would you find training/support helpful? Tick all that apply
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Other: 8. Comments: Fraining in computational research 9. In which of the following areas would you find training/support helpful? Tick all that apply Tick all that apply. Data management planning
8. Comments: Training in computational research
Other: 8. Comments: Fraining in computational research 9. In which of the following areas would you find training/support helpful? Tick all that apply. Tick all that apply. Data management planning Computational research skills General software engineering skills
Other: 8. Comments: Fraining in computational research 9. In which of the following areas would you find training/support helpful? Tick all that apply. Data management planning Computational research skills General software engineering skills Awareness about intellectual properties issues

Scientific Reproducibility A number of institutions, including Cambridge University, hold workshops where students learn about reproducibility standards and then try to replicate the analysis of a published paper in their field, providing both theoretical and practical experience of reproducing research. 11. Do you think it would beneficial to offer this type of experience at other universities? Mark only one oval.
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Mark only one oval.
Yes
No Others
Other:
12. What level should this kind of course should be provided at?
Tick all that apply Tick all that apply.
Undergraduate level
Masters level
Doctoral level
Postdoctoral level
Other:
13. Should this kind of course be optional or compulsory? Mark only one oval.
Compulsory
Optional
Other:
14. Should the course to be provided internally, or by an expert body, such as Software Carpentry?
Mark only one oval.
Internally
By an expert body
Either
Other:

period? Mark only one oval.
man only one oval.
Short and intensive (over a few days)
Spread out over a few weeks
Completed over a time period suiting the student
Other:
16. Comments:
Computing any ironments aupporting reproducibility
Computing environments supporting reproducibility
There are come enceiglist platforms that allow you to cove a language of your data and analysis
There are some specialist platforms that allow you to save a 'snapshot' of your data and analysis software, so it is easy for someone else to download and run your experiment.
17. Would you be interested in using this type of technology for your own research?
Mark only one oval.
Yes
Yes No
No
No
No Other: 18. Would you be interested in using this type of technology to rerun other people's research,
No Other: 18. Would you be interested in using this type of technology to rerun other people's research, or use their analysis code?
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20.	Comments:
<u>Ot</u>	her suggestions
21.	Would having access to research software engineers (developers who specialise in scientific software) on campus be something that could help scientists to produce code that they would be happy to publish? Mark only one oval.
	Yes
	No
	Other:
22.	Would you want to become part of a research software engineering community, where people could discuss code publishing and open science? Mark only one oval.
	Yes
	No
	Other:
23.	Would you be more inclined to focus on making analysis code and data available if more publishers required it?
	Mark only one oval.
	Yes
	No
	Other:
24.	Comments:

Finally, do you have any other recommendations that may help scientists to publish code and data?

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