

Discoverability of Training Materials & Activities

A KEY COMPONENT IN A NATIONAL APPROACH TO DIGITAL RESEARCH SKILLS TRAINING

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PRESENTED BY

Kathryn Unsworth - Manager, Skilled Workforce Development, ARDC



Amplifying digital research training opportunities nationally





Australian Research Data

Purpose

To provide Australian researchers with competitive advantage through data.

Mission

To accelerate research and innovation by driving excellence in the creation, analysis and retention of high-quality data assets.

BUILDING DIGITAL WORKFORCE CAPACITY AND SKILLS FOR DATA- INTENSIVE SCIENCE

OECD SCIENCE, TECHNOLOGY
AND INNOVATION
POLICY PAPERS
July 2020 No. 90



“A digitally skilled workforce is required to complement investments in data-intensive scientific infrastructure.”



Australian Government
Department of Education,
Skills and Employment

National Research Infrastructure Roadmap 2021

Exposure Draft

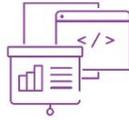
“Rapid advances in computing techniques and analysis, and management of large and complex datasets have resulted in researchers no longer having sufficient expertise in computational, data management and analysis techniques.

There should be consideration of how national system-wide approaches to training and services could benefit researchers.”

A COMMUNITY-DRIVEN, NATIONALLY-COORDINATED, SECTOR-WIDE APPROACH TO TRAINING



**Nationally coordinated
delivery of training
through existing skills
communities**



**Developing national
training materials and
resources**



**Deploying national
infrastructure for digital
research training**



**Developing a national
skills framework (skills,
roles, learning pathways)**

COORDINATED NATIONAL DIGITAL RESEARCH SKILLS AGENDA

- 2021 — **ARDC co-invests**
 In July 2021, the ARDC extended the development window by another 6 months through co-investment
- 2021 — **Pawsey initial funding**
 March 2021, 3 months of initial development work funded by Pawsey
- 2020 — **ARDC Aust eResearch & Data Skills Summit**
 National Training Registry & Calendar working group is formed to conduct environmental scan
- 2019 — **ARDC eResearch Skilled Workforce Summit**
 Skills trainer community recognises the need for a training discovery portal

2019	2020	2021
Shared pain points	Prioritised pain points	Addressed pain points
Common vision	Common objectives	Common outcomes
Disparate approaches	Targeted approach	Standards-based approach
Continued discussion	Focussed discussion	Committed actions and effort

THE DRESA PARTNERS

Product owner group



Core partners



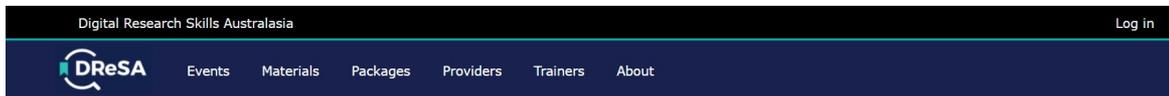
Invaluable assistance from



Find digital research skills-focused educational events and resources with DReSA



What is DReSA?



Welcome to Digital Research Skills Australasia (DReSA)

Browsing, discovering and organising digital research events and training resources, collected from Australasian providers.

 Q

Events



Browse and discover training events from across Australasia.

Materials



Browse and discover training materials from Australasian providers.

Providers



Browse and discover Australasian training providers who contribute events and materials to DReSA.

Trainers



Browse and discover Australasian trainers for digital research skills.

Latest Content in DReSA

Single Cell RNA-Seq Analysis Using Galaxy



This hands-on workshop will cover the basics of single cell RNAseq analysis, using the Galaxy platform. Starting from a table of gene counts we will evaluate, filter, annotate and visualise the data. We will also cover clustering, cell type identification and differential expression. Galaxy...

Skills impact & strategy



High quality training is critical to maintaining a competent and competitive digital research ready workforce. Maximising the impact of skills training events, course ware, training materials and resources helps ensure greatest return on investment for training providers, trainers and learners...

DReSA makes it easier for learners, trainers, and training providers to find digital research skills-focused educational events and resources.

Who is DReSA for?

Individuals seeking training

- Find training and materials by topic, location, organiser, audience, etc.
- Subscribe to new items on current searches

Training providers/Trainers

- Promote and share training events and materials
- Contribute to a growing catalogue of materials
- Establish collaborative training partnerships



dresa.org.au

FUTURE DEVELOPMENTS

January to March 2022

- Automated ingest processes
- ANZSRC Field of Research (FoR) codes - RVA vocab integration
- Non-AAF log in
- eLearning registry?
- Bug fixes



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A SUSTAINABLE FUTURE FOR DReSA

5 Step Plan for sustainability:

1. Technical architecture
2. Critical mass of content
3. Links to other training registries, repositories and websites
4. Suitable governance and funding model
5. Measure and evaluate impact of DReSA



Tumisu <https://pixabay.com/images/id-6786741/>

TO BE FAIR, WE ALL NEED TO BE ON THE SAME PAGE

Breakout room discussions

How reasonable is the RDA
Training Materials minimum set?

As content creators and instructor
adapters what is the minimum
metadata set you would want to
apply to your own training
materials in order for them to be
as FAIR as possible?



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ardc.edu.au



contact@ardc.edu.au



+61 3 9902 0585



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