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N8 CIR - Computationally Intensive Research for all

Introducing the **N8** Centre of Excellence for
Computationally Intensive Research

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Who are we?

N8 Research Partnership of the 8 most research intensive universities in the North of England

N8 HPC offered access to a shared compute platform

N8 CIR Centre of Excellence established to build on partnership and share expertise

n8cir.org.uk

Why CIR? What is CIR?

It's not just about HPC anymore!

Data-driven workloads are only increasing –
HPDA, AI

We can help “non-traditional” users too

Many researchers can benefit from resources
beyond desktop applications

Accelerate research!



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Research Themes

Digital Health

Digital Humanities

Materials and Manufacturing

Sustainable Infrastructure

Computational Sciences

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Digital Health Research Theme

Connected health

Health data analytics

Drug discovery

Omics

Virtual Physiological Human

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Digital Humanities Research Theme

Corpus Linguistics

Geographical Information Systems

Digital footprint analytics

Digital creative

Cultural heritage preservation/dissemination

What does N8 CIR aim to achieve?

Develop skills across the partner organisations

Develop shared software

Facilitate access to computational resources

Leverage funding for CIR

Research Software Engineers

Build a network of RSEs across N8

Share expertise

Possible secondments around N8 organisations?

Work with infrastructure teams to deploy workflows

Research Infrastructure Engineers

Work on future shared platforms and cloud

Establish community of practice

Work with RSEs to deploy shared software on local platforms

Collaborate on shared deployment methods, e.g. containers, EasyBuild

Events

Workshops and training days to be held across N8

AWS HPC & HTC held at UoM last November

Similar events with other cloud vendors to come

Technical roadmap workshops held at beginning of year to consult researchers from current themes

Same to happen for remaining themes

Many more!

What are we up to?

Cloud – bursting HTCondor pool in AWS

Cloud – helping researchers use these resources efficiently and securely

Cloud – can we run HPC workloads efficiently?

Software deployment – singularity, EasyBuild, etc.

What next?

All of the above are ramping up!

Establish networks and communities of practice

Work towards shared platform and cloud infrastructure?

Bid for UKRI/EPSRC Tier 2 HPC funding



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Connect with us

Talk to your local TMG representative:

n8cir.org.uk/governance

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