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NCI eNewsletter July 2023

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July 2023

nci.org.au

Dear NCI users,

Welcome to the July edition of the NCI newsletter! I'm excited to share with you a summary of the key news and events from the past month.



I was thrilled to be up at UNSW Sydney some weeks ago for the [official launch of PrOSPeCT](#), the Precision Oncology Screening Platform Enabling Clinical Trials. This project brings together medical research institutes, industry partners and government with the aim of revolutionising cancer treatment using precision medicine and free genomic profiling for 23,000 Australians battling incurable or advanced cancers. NCI is proud to be a core partner of this initiative, providing the infrastructure, cybersecurity, and big data computing to enable the incredible health impacts to come.

We announced a new member of our Collaboration this month, with the [University of Newcastle](#) joining the NCI Collaboration to access more than 12 million hours of computing for their researchers. It's great to see the NCI Collaboration continuing to grow! This places the University of Newcastle in good company alongside 14 other Australian universities accessing HPC resources at NCI.

[SupercomputingAsia 2024](#) preparations are in full swing, with the technical sessions, equality, diversity and Inclusion track, and doctoral showcase call for submissions

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speakers – *Professor Dieter Kranzlmüller* from the Leibniz Supercomputing Centre, *Professor Nicola Marzari* from the Swiss National Centre of Competence in Research for Computational Design and Discovery of Novel Materials, and *Professor Francisco J. Doblas-Reyes*, Earth Sciences department director, Barcelona Supercomputing Center.

The National Computational Merit Allocation Scheme is calling for Expressions of Interest to join its [Scientific Advisory Committee](#). NCMAS is Australia's leading grant scheme for accessing HPC resources at NCI and Pawsey, and the Scientific Committee plays a crucial role in the merit assessment and allocation of these resources each year. Please consider taking part in this important process and contributing to the entire community.

Finally, I'd like to point Computational Fluid Dynamics researchers in our community to the Collaborative Course run by Intersect, [HPC and Data in Computational Fluid Dynamics](#), starting on 29 August. This course is ideally suited to HDR students and ECRs making a start in the field, and will feature lectures from internationally renowned professors.

Kind regards,
Sean – NCI Director



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Revolutionising Cancer Treatment with Precision Medicine

ProSPeCT (Precision Oncology Screening Platform Enabling Clinical Trials), is Australia's largest cancer genomics initiative, officially launched on 27 July 2023 with the aim of revolutionising cancer treatment and providing new hope for patients with difficult-to-treat cancers.

The program will promote precision medicine, unite Australia's top cancer institutes, researchers, industry partners and government bodies, and offer free genomic profiling to 23,000 Australians who are battling incurable or advanced cancers, including sarcomas and ovarian and pancreatic cancers.

Find out more about NCI's role in delivering the ProSPeCT project on our [website](#).



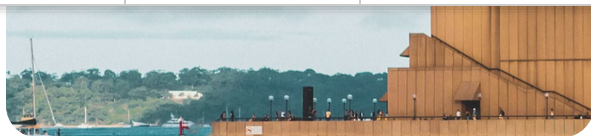
THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

University of Newcastle Joins NCI Collaboration

NCI is pleased to announce that the University of Newcastle has signed on as our newest Collaborator organisation. Through this arrangement, University of Newcastle researchers will have access to the equivalent of 12 million hours of computing time and more than 260 Terabytes of data storage per year.

[Learn More](#)

SC Asia Call for Participation

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SupercomputingAsia 2024, we welcome contributions from the community to be part of the technical program committee and to chair technical sessions at the conference.

[Learn More](#)

Call for NCMAS Committee Expressions of Interest

The National Computational Merit Allocation Scheme is seeking expressions of interest from researchers in the following fields:

- Fluid mechanics and thermal engineering
- Astronomical sciences
- Climate change science
- Condensed matter physics
- Theoretical and computational chemistry

to serve on the Scientific Advisory Committee for the term 2023-2026.

[Learn More](#)

Graduate-Level Course for CFD Researchers

The 3rd collaborative graduate-level course **HPC and Data in Computational**

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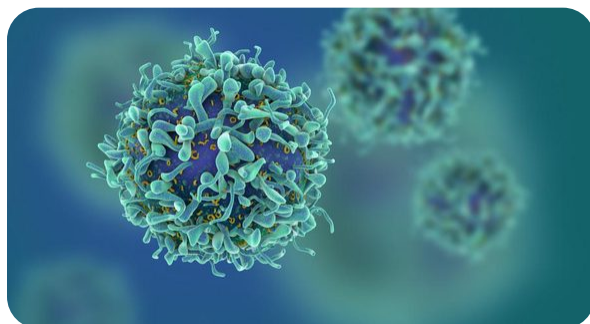
HPC & Data III Computational Fluid Dynamics



Dynamics (CFD) across 12 weeks from August to November. It aims to support HDR students and ECRs working on large or complex Computational Fluid Dynamics problems and requiring HPC and data tools to maximise their research impact.

[Learn More](#)

Recent Highlights



Helping provide the best tools for children's cancer researchers

World-class genomics infrastructure is needed to support Australian scientists and clinicians looking to develop novel treatments to improve outcomes for children with cancer. An important element is the availability of genomic data and reference genomes that are well-maintained and up-to-date.

[Learn More](#)

Upcoming Training

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advanced courses for NCI users are now available through to the end of August. These fill up fast, so get in quick to reserve your spot in an upcoming session! **Registration is essential.**

Registration details and all upcoming NCI training sessions are listed on our [NCI Training and Educational Events](#) page.

- 16-17 August, Data Manipulation and Visualisation in R
- 22-23 August, Introduction to Machine Learning using Python: Linear Regression
- 25 August, Introduction to Gadi

Service Updates

Every month, NCI's User Services Team updates the software available on Gadi with new versions and new packages.

In July, 16 new applications were installed, including:

- qgis/3.28.8
- netcdf/4.9.2
- ansys/2023r2

See the full list [here](#).

NCI's Data Collections Team manages and updates the datasets stored for use by Australian researchers.

Recently released datasets include:

- [AuScope Magnetotellurics \(MT\) Collection](#) (new datasets added)
- [The Bureau of Meteorology Australian Water Outlook Service Data Collection](#) (new datasets added)
- [ESGF CMIP6](#) (new datasets added)
- [ERA5 Replicated Datasets](#) (new products added)

See the full NCI data catalogue [here](#), and see all the monthly releases [here](#).



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