

STEP-UP RSLondon 2025

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Who are we and why do we run the BEAR Challenge?

Dudley children turn school into mini science museum

28TH MARCH 2022 EDUCATION LOCAL GOVERNMENT







delivered by Advanced Research Computing











The history of BEAR Challenge



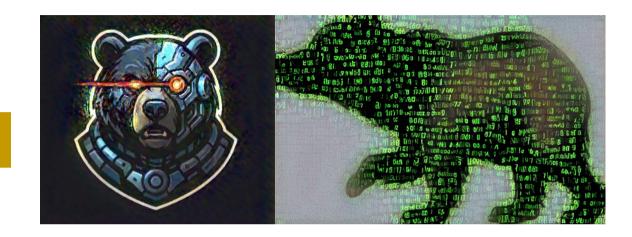




Example challenges

Combining art and AI using neural style transfer

"I enjoyed fusing various kinds of images and seeing the results."



Design a HPC cluster

"Challenge 5 was very engaging and interesting, and helped a lot with understanding the topology of HPCs"





Talks on careers in HPC



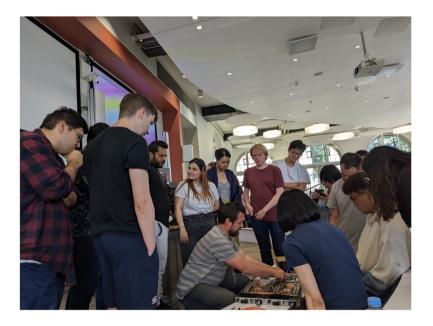






Data centre tours & viewing compute







Assembling teams!

Advertising

- Careers event in February
- Part of UoB Extra
- 31 teams applied, 227 students

This year's 15 teams

- Comp Sci (6), Comp Sci mixed (3), Social Sciences (3), Physics & Astronomy (2), and Engineering (1)
- ~1/3 undergraduates, 1/3 women









Benefits for the students and ARC



Did the BEAR challenge experience impact your career choices?

Yes, I think it did, as I am now working at the STFC in the Scientific Computing Department which is all about facilitating scientific research or being involved in the research yourself. I think showing interest in the BEAR challenge and explaining what I was going to be doing gave me an advantage in securing my position, and the knowledge gained from the event gave me a better start when I got here.

"...and the strength of our research-informed teaching. A good example of this was the recent BEAR (Birmingham Environment for Academic Research) Challenge event for undergraduate and taught postgraduate students..."

- Vice Chancellor's email to all staff, July 2024





Any questions?

Blogposts: https://blog.bham.ac.uk/bear/category/events/bear-challenge/

#BEARChallenge2025

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