

## Oracle for Research UK Doctoral Outreach and Training Initiative (DOTI)

The UK DOTI is a programme being run by Oracle for Research with the goal of providing research students with introductory fundamental training in cloud computing. This free 1-day course for 10-30 students involves the following:

- Lecture material covering:
  - o Cloud: what and why?
  - o Core cloud services
  - o Networking
  - o Compute
  - o Storage
  - o Use cases in real research projects
- A hands-on workshop:
  - o Each participant receives a £750 Cloud Starter Award on Oracle Cloud Infrastructure (OCI) to use for the training day and further experimentation
  - o Setting up a cloud tenancy
  - o Creating and using SSH keys
  - o Creating a virtual cloud network
  - o Creating and accessing a virtual machine
  - o Uploading, accessing and running scripts in the cloud
- Live demo of our Data Science Service

In addition to the training day itself, we will be running drop-in sessions for participating students via Zoom in the two weeks following training to seek further support in learning how to use OCI.

Finally, each student who participates in the training day will become eligible to apply for a Doctoral Project Award (DPA). Applications are non-competitive and lightweight and if successful, applicants will be granted:

- Research project support for up to 12-months
- Oracle Cloud credits sized accordingly for the proposed project (typically more than £10,000, averaging around £50,000)
- Technical support from Oracle cloud solutions architects
- Regular check-ins with the Oracle for Research team
- Possibility to collaborate with Oracle for Research's marketing team on writing a blog post article about the research project to be shared
- Oracle for Research support in giving an internal seminar at the student's institution on work carried out in the programme
- An invitation to attend and present at Oracle for Research hosted community seminar days with other recipients of DPAs

This training day has been designed with the purpose of helping students acquire a new skillset which will be useful for their PhD projects, future research or future careers. Discussions with senior researchers and research group leaders across a variety of fields has highlighted a lack of ECRs with cloud computing skills. Academics described how the need to invest significant time to train students in cloud computing was a notable barrier to bringing new members into their research groups. As artificial intelligence and machine learning become increasingly integrated within all strands of scientific research, the demand for cloud-literate researchers will only increase further.

If you are interested in this free training opportunity for a group or cohort of research students then please get in contact with Ryan Payton via [ryan.payton@oracle.com](mailto:ryan.payton@oracle.com).

## Planning & Logistical Requirements

In order for us to run this session for your students we will require you to provide the following:

- Room booking (10:00 – 16:00) with
  - o Projector
  - o WiFi
  - o Plenty of plug points
- A list of participants at least 2-weeks prior to the training date including
  - o First name
  - o Surname
  - o Email address
  - o Host institution
- To share a supplied course description with students which highlights the necessity to bring a laptop for the session