

## Microsoft Azure for Research Training details

Microsoft Azure is an open and flexible global cloud platform supporting any language, tool, or framework, and is ideally suited to researchers' needs across disciplines. Microsoft Research is pleased to offer training for academic researchers ("practitioners") who would like to learn how to conduct their research on a highly scalable and flexible cloud infrastructure, such as that offered by Microsoft Azure.

We are currently offering free, technical, training events around the world, presented by specialized Microsoft Azure for Research trainers. The course is intended specifically for active scientists who can code, who will soon code, or are interested in coding in a modern computing context. Computer scientists who are working with such scientists will also benefit from the training.

Attendees will be able to access Microsoft Azure on their own laptop during the training and for evaluation purposes for up to six months after the event. The attendee's laptop does not need to have the Windows operating system installed—Microsoft Azure is accessed via your Internet browser.

This is a programming class, so some ability to program in a modern language is useful, but the course is suitable for researchers using any language, framework, or platform. This includes Linux, Python, R, MATLAB, Java, Hadoop, STORM, SPARK, and Microsoft technologies such as C#, F#, Microsoft .NET, Microsoft Azure SQL Database, and various Microsoft Azure services. Some basic exposure to cloud computing is helpful, but no real expertise or usage experience is required; the focus of the class is to teach you this.

Learning outcomes include:

- Gaining an understanding of cloud computing and why and when you would use it in scientific or other research
- Acquiring hands-on experience in the major design patterns for successful cloud applications
- Developing the skills to run your own application/services on Microsoft Azure