



The Abdus Salam  
International Centre  
for Theoretical Physics



ICTP—East African Institute  
for Fundamental Research  
an ICTP Partner Institute

**SPRINGER NATURE**



The World Academy of Sciences  
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# Foundational School In Research Data Science

22 October – 2 November, 2018

University of Rwanda, Kigali, Rwanda

## Background and purpose

The goal of this workshop is to train researchers in Research Data Science (RDS). RDS refers to the principles and practice of Open Science and research data management and curation, the use of a range of data platforms and infrastructures, large scale analysis, statistics, visualization and modelling techniques, software development and data annotation. These are important tools for extracting useful information from data and these tools are useful in every research area. A 10-day workshop, organized by CODATA, ICTP and EAIFR, will be conducted at the ICTP-EAIFR premises of the University of Rwanda, Kigali in order to introduce participants to the skills of RDS.

## Topics covered

- \* Open Science
- \* Unix Shell
- \* Version Control
- \* Introduction to R
- \* Research Data Management
- \* Databases and SQL
- \* Data Visualization
- \* Machine Learning and Artificial Neural Networks
- \* Research Computational Infrastructure

## Participation Information

This workshop is open to researchers in every field. Science graduates (masters and doctoral levels) working in data intensive fields will find it particularly useful. Women candidates are strongly encouraged to apply. Selection of participants will be based on their technical background and also the urgency of their needs to apply the tools of RDS. A limited number of grants are available to support attendance of some selected participants. There is no registration fee. **Applications for participation for the workshop can be found at:**

<https://e-applications.ictp.it/applicant/login/9006>

**Deadline for application: August 18, 2018**

For further information contact: [info@eaifr.org](mailto:info@eaifr.org) or [workshop20181015@eaifr.org](mailto:workshop20181015@eaifr.org)

Organizing team / Sponsors: CODATA, RDA, SPRINGER NATURE, ICTP, ICTP-EAIFR, TWAS, ACE-DS/UR, ACEIoT/UR