

# JOINT ICTP-IAEA-UNESCO

## Workshop on Open Hardware & Open Software Solutions for Sustainable Development



13-17 May 2024



Stellenbosch University,  
South Africa



Open Hardware and Open Software solutions can play a crucial role for sustainable development. By enabling transparency and collaboration, they can lead to the development of sustainable technologies that are easily adaptable to local contexts.

This workshop offers two concurrent training sessions: one focused on Open Hardware and one on Open Software, with both including hands-on exercises, lectures, demonstrations and field applications.

Interested participants are invited to apply for the course that aligns most closely to their area of interest.



# Open Hardware for Water Monitoring

Internet-of-Things

Getting started with ARDUINO

MQTT for data transfer

Intro to TinyML

Citizen Science applications

**Open Hardware**

**Application link**

**Open Software**



**Open Software**

R for AI

Soil and Water Assessment Tool

Intro to TinyML

SWAT+ and J2000 for climate change impact and isotope modelling

TOMST network

Citizen Science applications

**Application link**

**Open Hardware**



There is no registration fee for this training.

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries.