



CALL FOR WATER RESOURCES MODELLING HACKATHON

1. Introduction

Rwanda Water Resources Board (RWB) is inviting university students to participate in the 2024 water resources modeling hackathon. The main objective of this competition is to promote innovative solutions for sustainable water use and management and enhance Biodiversity conservation in Rwanda.

2. Participants

The competition is free to all Undergraduate and Master's students enrolled in universities, IPRCs and other high learning institutions in water resources, climate, urban planning and geography and other related programs.

3. Hackathon

The participants will use HEC-HMS or SWAT model to produce a well calibrated hydrological model for one of the following level 2.5 Rwandan sub catchments: Kamiranzovu, Sebeya Pfunda, Sebeya Bihongoro and Mbirurume. The competitors will use a set of data from the available data sources local or global datasets.

4. Entry and pre-selection

- The registration period to the competition is from 03rd April to 15th April, 2024
Participants are required to submit [a filled form](#) together with a valid student identity card.
- The pre-selected students will be notified not later than 19th April,2024

5. Model Submission

The submission will include:

- PDF documents describing selected sub catchment, data used, model parameterization, calibration, model results and Discussion.
- Zipped developed model with all its contents.

Submissions will be done via RWB's official email, hackathon@rwb.rw, copy to info@arcosnewtork.org not later than 30th June 2024 at 17h00 Rwandan time and the successful competitors will be notified not later than 20 July 2024.

6. Evaluation criteria



The evaluation of model and model report will be evaluated based on:

- Source and quality of data
- Model parameterization
- Model calibration
- Results interpretation and its use in water resources management

7. Awards

The best participants will be awarded as follows:

The first candidate will be awarded one million Rwandan Francs (1,000,000 RWF), the second candidate will be awarded eight hundred thousand Rwandan Francs (800,000 RWF) and the third candidate will be awarded six hundred thousand Rwandan Francs (600,000 RWF), the fourth five hundred thousand Rwandan francs (500,000 RWF), the fifth four hundred thousand Rwandan francs (400,000 RWF), the sixth three hundred thousand (300,000 RWF), and the seventh two hundred thousand Rwandan francs (200,000 RWF).