**DEVELOPMENT OF PTDF ONLINE STEM PORTAL**

**About PTDF STEM Programme**

It is an all-inclusive Science, Technology, Engineering and  Mathematics (STEM) program at Senior Secondary School level in Nigeria that is aimed at building the capacity of science teachers to effectively deliver STEM education as well as to also provide a stimulating environment for the teaching and learning of science subjects.

**Programme Scope**

One Thousand (1000) secondary schools across the nation, including the one hundred and four Federal Government owned Unity Schools.

* Unity Schools104
* 1 in each of the 774 LGAs
* Others122

**Total1000**

**Programme Objectives**

1. To ensure the acquisition of general literacy in STEM among Nigerian students
2. To produce highly skilled and qualified persons for future careers in STEM-based professions in Nigeria

**Subjects to be covered**

1. Physics
2. Chemistry
3. Biology
4. Mathematics
5. ICT

**Programme Implementation Measures**

1. Working in conjunction with the Science Teachers Association of Nigeria (STAN) to put science teachers from the selected schools through intensive coaching and training over a period of time.
2. Provision of 400-500 books Physical Library consisting of critical STEM learning aids to each of the selected schools based on global standards of the different subjects and disciplines.
3. Development of simulation software to facilitate practical sessions for each subject. This would engage students through an intuitive, game-like environment where they learn through exploration and discovery.
4. Engagement of 5000 Youth Corps Members to assist in teaching the subjects and managing facilities provided under the programme.

**NOTE:**

In developing the schematics/wireframe for the portal using the data above, please include a projection tool to enable the project team establish project baselines such as, number of teachers to be trained per quarter, simulation software deployment schedule per quarter, number of NYSC members to be deployed, schedule of books to be provided to schools per quarter etc.

The implementation measures should be broken into implementation tasks/phases e.g. the deployment of simulation software in 1000 schools should have under it “choose simulation software” and move to “procure simulation software” and all the way to the deployment of the software in the schools.

The tool should also enable team members to input actual implementation data against established baselines, in order to effectively track implementation progress. It will also serve the additional purpose of being a data repository to aide report writing.