

Submitted on Sat, 01/15/2022 - 08:43

Submitted by: Benjamin Aina Peter

Submitted values are:

General Information

Project Name

GRADUATE SUPPORT PROGRAM IN COMPUTATIONAL FLUID DYNAMICS AND TEACHING OF CALCULUS-ALGEBRA

Project start date

Fri, 07/01/2022 - 00:00

Project end date

2023-06-30

Total Duration of the Project

1 year

Country/Institution where the project will be held/based at

Kampala International University, Uganda

Main Applicant

Name

BENJAMIN PETER

Department, Institution and Position

Physical Sciences, Kampala International University and Associate Professor

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Supporting Applicant

Name

OLABODE BAMIGBOLA

Department, Institution and Position

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University of Ilorin
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Project Details

Project Aim

This project aims at revitalizing computational skills in the graduate students and teaching the fundamental concepts of calculus and algebra through the use of computer software and algorithms such as Matlab, Maple software, C++ and python programming. This program also aims to introduce the teaching of fluid dynamics at both undergraduate and graduate levels.

Target Group

diploma, undergraduate and graduate students

How many mathematicians/mathematics educators and from which countries will be reached with this project?

10-15 mathematicians from Uganda, Kenya, South Africa, Swaziland and Nigeria. 20 postgraduate and 200 undergraduate students

How will this project address the CDC's mandate to support mathematics in the developing world?

This program will contribute immensely to the development of diploma, undergraduate and graduate students in fluid dynamics and innovative basic concepts in differential calculus at Kampala International University, Kampala.

The program will strengthen the established institutional partnership between Kampala International University, Kampala and CDC.

This program will form a genuine partnership to increase the level of students' understanding in calculus and algebra.

This project will contribute to strengthen the cooperation between the Home and Host institutions and the established contacts.

Did you receive local support?

No financial support

Please write 3-5 sentences (Brief summary of project) which we can publish on CDC website in case the project receives support.

Mathematics is fundamental to the formulation and analysis of scientific theories. It is a rich and independent field of inquiry, and its study is an excellent preparation for life in our highly specialized society.

Computational Methods in Fluid Dynamics

Detailed Project Budget

Total Grant amount requested from CDC (in EUR)

10000

Amount provided for the project by the applicants and local support (in EUR)

0

Amount provided for the project by other sources (in EUR)

0

Survey

Have you received IMU Support in the past?

Yes, host volunteer Lecturer

How did you hear about the CDC Project Application Program?

CDC website

Uploads

Upload A) * Main Applicant CV (maximum 5 pages) and list of publications

[Peter-CV CDC.pdf](#)

Upload B) Supporting Applicant CV (maximum 5 pages) and list of publications

[OMBCV 2022CDC.pdf](#)

Upload C)* Detailed description of the project

[CDC DESCRIPTION.pdf](#)

Upload D)* Letter of support by the institution where the project will be based at.

[support letter\(sonas\)214.pdf](#)

Privacy Policy - How we use your data

Data Policy

Yes