AIMS | African Institute for Mathematical Sciences NEXT EINSTEIN INITIATIVE

P.O. Box 6428, Cellule Kamatamu
KG 590 ST, Kacyiru
Kigali, Rwanda

AIMS – Teacher Training Program Rwanda

FULL-TIME POSTDOCTORAL FELLOWSHIP POSITIONS (2)

The AIMS Teacher Training Program (TTP) Rwanda is a five-year program (2018 to 2022) targeting in-service and pre-service teachers of mathematics and science in Rwanda. Implemented in partnership with the MasterCard Foundation Leaders in Teaching (LIT) initiative, Rwanda Basic Education Board (REB), National Assessment & School Inspection Authority TTP Rwanda aims to train over 4,500 in-service teachers from 760 secondary schools and over 500 school leaders including head teachers and schools' deans of studies. Drawing from an 'ecological' framework and transformative approach to improving learning outcomes (professional development) in mathematics/sciences, the program also includes interventions under three other key pillars: resourcing of schools pillar; community outreach & public engagement pillar; and evidence collection for policy dialogue pillar.

Post 1: Science Education: Physics

Throughout the implementation process of AIMS TTP Rwanda the team has continuously collected data from some of their key interventions. Further, as the program draws towards the end of its first phase of education, there is interest to explore the impact of the different interventions on the physics teachers' professional development and improvement in quality of learning, assessment and interest in physics. The Post-doctoral student will curve out a multifaceted research focus on Science Education (physics) within the project including;

1. Undertake focused, high quality research leading to publication in accredited research journals
2. Participate and make presentations at conference and high level policy dialogue sessions

In addition, the postdoctoral student will act as an active member of the AIMS Rwanda Science Education Academic team and will:

3. Play a role in shaping research informed science education (physics) interventions
4. Support the building of capacity for action research amongst the mathematics/science teachers in the TTP program
5. Support in the designing of short postgraduate programs for Masters students (especially the TTP teachers) in Physics Education

Post 2: Science Education: Chemistry or Biology

Throughout the implementation process of AIMS TTP Rwanda the team has continuously collected data from some of their key interventions. Further, as the program draws towards the end of its first phase of education, there is interest to explore the impact of the different interventions on the science teacher' professional development and improvement in quality of learning, assessment and interest in biology or chemistry. The Post-doctoral student will curve out a multifaceted research focus on Science Education (Biology or Chemistry) within the project including;

1. Undertake focused, high quality research leading to publication in accredited research journals
2. Participate and make presentations at conference and high level policy dialogue sessions

In addition, the postdoctoral student will act as an active member of the AIMS Rwanda Science Education Academic team and will:

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3. Play a role in shaping research informed science education (chemistry and biology) interventions
4. Support the building of capacity for action research amongst the mathematics/science teachers in the TTP program
5. Support in the designing of short postgraduate programs for Masters students (especially the TTP teachers) in Chemistry or Biology Education

Duration: 18 months

Minimum requirements for both roles

AIMS - TTP Postdoctoral Fellowship in Mathematics Education	*AIMS - TTP Postdoctoral Fellowship in Science Education*
• A PhD in science education with a specialization in physics obtained within the last five years. In exceptional cases, we may be able to motivate a fellow whose PhD was obtained more than five years ago. • Interest and demonstrated expertise in teaching physics at secondary level • Demonstrated evidence of scholarly performance • Demonstrated English proficiency, strong writing and computer skills • Proficiency in both quantitative and qualitative data analysis will be an added advantage	• A PhD in science education (Biology or Chemistry), obtained within the last five years. In exceptional cases we may be able to motivate for a fellow whose PhD was obtained more than five years ago. • Interest and demonstrated expertise in teaching physics at secondary level • Demonstrated evidence of scholarly performance • Demonstrated English proficiency, strong writing and computer skills • Proficiency in both quantitative and qualitative data analysis will be an added advantage

The positions are expected to start in March 2022 or as soon as possible.

Application documents to be submitted to research@nexteinstein.org include;

1. CV/Resume
2. Motivation letter
3. Copy of the PhD Certificate
4. Three (3) recommendation letters to be sent directly by referees to research@nexteinstein.org

File name: Lastname_ First name_TTP_Postdoc2022

Deadline: The deadline for the postdoctoral fellowship application is **15.02.2022.**

For any questions, please email Dr. Herine Adhiambo Otieno hotieno@nexteinstein.org
Or Dr Isambi Mbalawata imbalawata@nexteinstein.org