



Regional Centre of Excellence in Biomedical Engineering and e-Health (CEBE)

CALL FOR APPLICATION FOR TRAINING IN ADVANCED PROFESSIONAL TRAINING

Course: HEALTH INFORMATION SYSTEMS – FROM CONCEPTS AND PROCESS TO IMPLEMENTATION.

The Government of Rwanda with support from the African Development Bank (AfDB) established a “**Regional Centre of Excellence in Biomedical Engineering and e-Health (CEBE)**” at the University of Rwanda (UR).

The Centre is a Biomedical Educational Program with the main objective to establish a network of Centre of Excellence (CoE) within the region. The Centre seeks to scale up skills, advancing knowledge and excelling in higher education in East Africa in a regional integration framework. The development objective of the Centre is to contribute to the development of a relevant and quality skilled workforce in biomedical sciences and e-Health to meet EAC's immediate labour market needs.

The expected outcomes of the Regional Centre of Excellence in Biomedical Engineering and e-Health (CEBE) are:

- ✓ Enhance technology integration in the Biomedical sector for rapid development of a more efficient and cost-effective service delivery system in Rwanda
- ✓ Create an enabling environment for transforming Rwanda into an attractive and competitive medical tourism destination, therefore linking Biomedical sector industry development and economic transformation
- ✓ Develop a critical mass of labour-intensive support personnel for the sector through the creation of an enabling environment for hands-on skills development and research and development (R&D) capability in strategic areas such a biomedical engineering and ICT
- ✓ Attract Foreign and Direct Investments support

The University of Rwanda-Centre of Excellence in Biomedical Engineering and eHealth (UR-CEBE) in partnership with Stockholm University, Sweden, through the Research Training Partnership Programme, Rwanda, 2019-2014 received funding from the Swedish International Development Agency (SIDA), Sweden, to establish a research project entitled: *Strengthening Research Capacity and Expertise in Digital Health*. The research training sub-programme has a goal to strengthen research and training in Digital health as well as to develop and disseminate home-grown e-Health solutions through innovative research and development (R&D) activities involving the Government, academia, and private sector as partners.

It is in this regards that the UR-CEBE in collaboration with Stockholm University announces a call for application for Advanced Professional Training in **Health Information Systems - from Concepts and Processes to Implementation from 21st June to 3rd July 2020.**

This advanced professional training in **Health Information Systems – from Concepts and Processes to Implementation** will run for two (2) weeks using online methods (see the timetable below). The course provides increased competence to lead and participate in the implementation of

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the future health care information system using enterprise and system modelling, in order to realize integrated care and care with a focus on the care recipient's needs and conditions.

This Continuing Professional Development (CPD) course is designed for Health care providers/personnel, Project managers, Process leaders, Business developers, Business architects, Managers / leaders, IT architects, System administrators. Clinicians, Healthcare professionals, NGO's, academic staff with keen interest in innovation and health technology, quality assurance and regulatory professionals, are also permitted.

Learning outcomes:

At the end of the course, trainees will be able to demonstrate knowledge and understanding of:

- The use of Conceptual Modelling for designing digital health infrastructures
- The use of Process Modelling for designing novel work environments in healthcare
- The differences between Processes and Practices in healthcare
- The use of Modelling for Requirements Engineering
- The use of Healthcare Information Standards for providing interoperability

The topics to be covered are the following:

- Conceptual Modelling - theory and practice
- Process Modelling - theory and practice
- Processes vs Practices in healthcare
- Requirement engineering for health care system
- Healthcare Information Standards

The timetable of the training:

Date and time	Topic
Monday 21 June, 1-4pm	Introduction to course, process modelling (lecture), process modelling (lesson)
Wednesday 23 June, 1-4pm	Process modelling (seminar)
Thursday 24 June, 10am to 12pm	Conceptual modelling (lecture)
Thursday 24 June, 1-3pm	Conceptual modelling (lesson)
Monday 28 June, 9am-12pm	Conceptual modelling (seminar)
Monday 28 June, 1-3pm	Requirement engineering (lecture), Use cases (lecture)
Tuesday 29 June, 9-11am	Health care standards (lecture)
Thursday 1 July, 1-4pm	Requirement engineering (seminar)
Friday 2 July, 1-4pm	Health care standards (seminar)

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The eligible candidates are from Rwanda, EAC Partner States and others International candidates

The applicants should submit the following documents:

1. Application letter addressed to the Director of the CEBE, University of Rwanda
2. Curriculum Vitae

The complete applications in softcopy should be submitted to the following email: alphomusa@gmail.com not later than 17th June 2021 at 5:00 pm. Copy to; celestintwizere@gmail.com, and lewis.sis@gmail.com.

The selected candidates will be contacted and be informed on the status of their application. The admitted candidates will report to start the course on the dates of the respective course.

For more information please contact **Dr. Celestin Twizere**, Director of CEBE on email: celestintwizere@gmail.com and or **Dr. Louis Sibomana**; the Team Leader of Digital Health Sub-program on email: lewis.sis@gmail.com

Done in Kigali on 12th June, 2021

Dr Celestin Twizere,
CEBE Director
College of Science and Technology,
University of Rwanda.

A handwritten signature in blue ink, appearing to read 'Celestin Twizere', written over a faint circular stamp.