

*Weldon School of Biomedical Engineering
BME Special Seminar*

**Tuesday, January 28, 2020
9:00 - 10:00 am
MJIS / ROOM 2001**

**Partnership and collaboration with Regional Centre of Excellence for
Biomedical Engineering (CEBE) and e-Health at University of Rwanda**



**Celestin Twizere, PhD
Director**

**Regional Centre for Excellence in Biomedical Engineering and eHealth
CEBE Website: <https://www.cebe.ur.ac.rw>
University of Rwanda**

ABSTRACT

Dr. Twizere will share the information on CEBE that focuses on research and training in medical equipment/device and digital health/e-health. In addition, he will share collaboration and partnership opportunities with CEBE. CEBE currently serves the entire East African Community which includes Rwanda, Tanzania, Uganda, Kenya, Burundi, and South Sudan. The improvement of biomedical engineering and healthcare delivery capabilities through CEBE has very broad reach across the continent of Africa.

~BME Faculty Host: Young Kim~

Celestin Twizere (PhD) is a PhD holder in Engineering of Biomedical Electronics, Electromagnetism and Telecommunication from the University of Roma Tre, Italy in 2011. In 2002, he joined the Department of Physics in the Faculty of Education and in 2006, the Department of Electrical and electronics Engineering, National University of Rwanda as an Assistant Lecturer. His research interests include Ground Penetrating Radar, Wireless Communication and Networks, Electromagnetic Radiation and Propagation and Smart Antenna for mobile Communication.

Celestin is the Centre Director of the Regional Centre of Excellence for Biomedical Engineering and e-Health (CEBE), a network of East Africa's Centres of Excellence for Skills and Tertiary Education. The key strategy of CEBE is to position itself to operate in a **knowledge creation and transfer, academic and industry partnership, and technical service delivery ecosystem** to achieve high-impact results in support of several key health sector initiatives around **medical equipment and devices, rehabilitation and mobility devices, and e-health system** services.

In relation with his Telecommunication background, Celestin is interested mainly in:

- 1) The establishment of the East African Community (EAC) **Tele-Health Network** in Collaboration with Ministry of Health / Rwanda, East Africa Health Research Commission where one of the priority is to implement telemedicine to link East African Centers specialized health care facilities across the region.
- 2) Digitalizing the hospital patient trajectory and secondary use of Electronic Health Records (EHRs) in Rwanda where the priority of the country is to have integration and interoperability of different EHRs in Rwanda.