

Collaboration Opportunities with the Regional Water and Environmental Sanitation Centre (KNUST-RWESCK)

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Overview of RWESCK-By Prof. S.N Odai

Key issues

- The centre does a lot of research
- RWESCK has a long history
- Started in 1996 with support from the Dutch Government to help refocus and go into the needs of the sector to identify the gaps and build capacity
- Provided training for a lot of practitioners and faculty
- The sanitation sector has also support RWESCK by providing students vacation training opportunities
- There are opportunities to link up and reconnect with sector players on how they can benefit and work together
- The centre together with the sector must work together to achieve more

RWESCK- Presentation

- RWESCK is at the College of Engineering, hosted by the Department of Civil Engineering , KNUST
- **Core Activities include**
 - Training of high caliber of water, sanitation and waste professionals at the undergraduate and post graduate levels
 - Build strong strategic partnerships and collaborations with industry and sector partners
 - Research into innovative smart technologies, products and systems with industry partners
 - The Centre strives to be Centre of Excellence in the Sub-region

Post graduate programmes

- MSC Programmes (currently have 121 students)
 - MSc in Water Resources Engineering and Management
 - MSc in Water Supply and Environmental Sanitation
 - MSc in Water and Sanitation Governance
- PhD Programmes (currently have 46 students)
 - PhD in Water Resources Engineering and Management
 - PhD in Water Supply and Treatment Technologies
 - PhD in Environmental Sanitation and Waste Management
 - PhD Water and Sanitation Governance

Activities being carried out

- Engaged in a lot of capacity building activities such as national and regional short courses
- Conferences(has organised the 1st regional conference on sanitation climate, water and environmental sanitation in Accra 2017)
- Considering organising the 2nd conference which is yet to be confirmed.
- Carry out a lot of research in Environmental Sanitation, Water Supply, Water Treatment and Water Resource Research

Collaboration opportunities

- **RWESCK collaborates with;**

- Academic institutions
- Sector and
- Industrial Partners from the Sub-region
- Development partners

To engage in activities such as

- Capacity Building for partners' staff (PhD, MSc, short courses)
- Guest Lecturer appointments from regional faculty and industry,
- Lecturers and students internships in industry
- Joint applied research and development with industry
- Joint proposal for grant funding

PhD & MSc Application Procedure

Please follow the KNUST link below:

<https://apps.knust.edu.gh/admissions>

(or go to www.knust.edu.gh and click **apply online**)

1. Click on generate login, and provide email
2. Go to your email inbox to pick the password
3. Come back to the link above and click on login
4. Provide detail following the steps, and upload all your academic documents (transcripts and certificates).
5. Print copy of the completed online application, attach your academic documents and post (by express mail) to the address below:
The Secretary
School of Graduate Studies
Kwame Nkrumah University of Science and Technology,
KNUST, Kumasi, Ghana,
6. Download the completed application form and send to RWESCK email (rwesckproject@gmail.com AND sokwarteng@gmail.com), attach all academic documents
7. Include motivation letter and research proposal if your are PhD applicant

Group activity

Question:

➤ List key developmental challenges and how the centre can contribute to solving the challenge and how?

➤ 3 Groups

1. Water resources and Climate Change
2. Sanitation and hygiene
3. Water supply

Group1: water resources and Climate Change

- Drought and flood- generation of data
- Impact of flooding on assets
- Study of groundwater potential and impact on agriculture

How centre can contribute

- Short courses for those with no science background

Group2: Sanitation and hygiene

- Inadequate final disposal site/solid waste generation storage , recycling challenges
- Poor performance of solid waste contracts /no commitment
- Low capacity /human capital at the MMDAs
- Sanitation behavioural change (education , enforcement , functional systems)
- Tracking mechanisms for sanitation facilities
- Latrine technology for sustainability-liquid waste /CLTS-latrines not sustainable
- No FS treatment facilities-advocacy /technical capacity

Group3: Water Supply

- Poor water quality
- Cost of treatment
- Sustainability of Rural Water supply
- Attitude on solid waste management
- Access to water supply
- Poor planning of communities
- Corruption

Next steps

- RWESCK needs a lot of publicity to make it more visible to the sector players
- What is it that you are doing that we can do together
- Collaboration of KNUST with sector players to do a research on an innovation from industry players
- KNUST open to more collaboration with the sector

THANK YOU