

Research Collaboration Marketplace

Applicants from Ghana and Tanzania searching for a Danish Partner, Call for Phase 1 applications 2017, research collaboration projects in Danida priority countries

Research Theme of Application	
Relevant research theme according to the country of applicant as defined in the Call: (http://dfcentre.com/research/calls-for-applications/)	Resilience to climate change
Applicant Information and Contact Details	
Applicant name	Makarius Mdemu
Applicant qualification (degree) and position	PhD, Senior Lecturer
Applicant e-mail address	mak_mdemu@yahoo.co.uk
Applicant institution and country	Institute of Human Settlement Studies, Ardhi University, Tanzania
Link to relevant website(s) (institution, CV, other)	www.aru.ac.tz
Project Proposal Information	
Proposed title for the project to be applied for	Climate proofing ecosystem based livelihoods in the peri-urban-rural interface along the coastal zone of Tanzania
Brief project description/project idea (10-15 lines)	This proposed addresses the resilience of ecosystem based livelihoods within the transtory peri-urban- rural interface along the coastal zone of Tanzania. The livelihoods of the people in the rural-urban interface along the Indian ocean costal zone of Tanzania are threatened from the increased vulnerability to impacts of climate change and variability. Analysis of rainfall and temperature data over the last 40 years indicate that the transition areas are experiencing declining rainfall trends and increasing temperature trends (See Kashaigili et al., 2014) . These climate change driven variability in rainfall and temperature translates into risks with likelihood of 30% induced crop/agro-ecosystem failures because firstly 50% of the amount of rainfall decrease occurs during the shorter rain season (vuli) and secondly the extreme temperature peaks coincides with the first 100 days of crop season. However, the zones have received less attention for research that quantifies the consequences of resulting vulnerabilities and provides robust climate change resilient livelihood strategies.

Brief description of the research competencies available on your team	Proposed research team from the Institute of Human Settlement Studies have strong competence in the areas of climate change adaptation, ecosystems planning and management, urban and peri-urban climate change sciences, environmental management, gender and ecosystem based livelihood analysis.
Describe in max 10 keywords the research competencies you are searching for in a Danish partner	climate change, adaptation, climate resilience, climate impact modeling, vulnerability, climate shocks, ecosystems, ecosystem services, livelihoods