

Cooperation Profile

Date of Submission: 23-02-2022

Relevant topic(s) in the work programme (call identifier & name of the topic(s))

We are interested in the Health, Digital Industry and Space, and Climate, Energy and Mobility Global Challenges. At the moment we are waiting for the 2023 Work Program to be distributed to identify relevant topics.

Description of your expertise (up to 1000 characters)

The ARUA Centre of Excellence in Materials, Energy and Nanotechnology (CoE-MEN) is hosted by the University of the Witwatersrand, and also includes the Universities of Pretoria, Nairobi and Ghana, as well as Makerere and Dar es Salaam and with links to Nelson Mandela University (with electron microscope facilities) and the University of Johannesburg. The research focuses on the development of materials and new technologies to benefit Africa from fundamental to prototype devices, which should identify and develop new opportunities in an African context, e.g. minerals beneficiation, advanced manufacturing, off-grid energy technologies, housing and materials recycling. The ARUA CoE-MEN is a hub for materials science and engineering in Africa, as well as the ideal environment in which to build research capacity and human capacity for Africa. It aims to act as a hub for small to medium size enterprises, which are so crucial in stabilizing the economy in many African countries (e.g., once different products have been developed, partnerships will be needed for the production and testing, and this could help to build partnerships with small businesses and industrial partners).

Keywords describing your expertise (up to 10 key words)

minerals beneficiation, advanced manufacturing, off-grid energy technologies, housing and materials recycling

Organisation information

Organisation: University of Witwatersrand

Type of organisation:

Industry (Large) Industry (SME) University or College Research Institute Public Body Other

Previous participation in an EU project?

No Yes: in

Web page:

<http://www.wits.ac.za/Strongmaterials>

<https://arua.org.za/centres-of-excellence/coe-men/>

Description of your organisation:

The University of the Witwatersrand (Wits) aspires to be a **leading world-class research-intensive university** and to be a gateway to research engagement and intellectual excellence in Africa. It is committed towards **finding solutions** grounded in the values that we need to cherish as a society – excellence, the commitment to social justice, and the seeking of new knowledge to advance the public good. Our integrated research and teaching, inclusive of public engagement and partnerships for which Wits

is well positioned¹, offer unique ways to address the major global problems of the 21st Century, some of which are still unfolding. As a change agent in Africa, Wits is active in addressing the structural, political and socioeconomic challenges with which we are confronted as a society.

Contact details

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Declaration

I herewith declare that I am responsible for the content provided and that I expressly consent for this information to be published on the NCP DIT website <https://www.nks-dit.de/service/kooperationsprofile>.

(Please note that a publication of your data will **not** be possible if this box is not ticked.)

¹ Wits' strategic location within the economic and industrial heartland of the African continent places it in good stead to interact with the public and private sectors, civil society and other social agents to effect meaningful change in society. Currently, Wits has over 50 active projects around Africa.