



proSET (Professionals in science, engineering and technology) is a sector of the NSTF representing about 40 professional and learned societies. This section shares news about members and introduce new [members](#) of the [prosector](#).

- **Competition on ideas, designs and applications for 5G and beyond for Africa**

The [IEEE South Africa Section, South African Institute of Electrical Engineers](#) (SAIEE), NSTF/proSET and the [University of Pretoria](#) invite undergraduate and postgraduate students in electrical engineering and related disciplines to submit essays on the topic "5G and Beyond for South Africa and Africa". The submission must show how 5G is relevant to and can be used in South Africa, our continent, and serve its people's needs considering the availability of skills and other relevant factors. The submission deadline is 15 June 2021. [Read more.](#)

- **The Water Institute of Southern African**

At the height of lockdown in 2020, the [Water Institute of Southern Africa](#) (WISA) did something unusual, but on reflection was in keeping with the mandate of an NPO whose 2500 members' primary concern is the safe and efficient use of water. They realised that PPE companies were just not geared up to provide their products in the volumes needed, but the 3D printing hobbyist groups could print PPE. But they were not an NPO and were not equipped to manage fund donations. The Board agreed that WISA could use its platforms and connections to call for donations for filament so that PPE equipment could be printed, and to transparently manage any funds that were donated.

The hobbyists were not in a position to manage the donations, so WISA stepped in and provided its administrative support so that the funds could be disbursed. The result was a reusable 3D printed mask with space for a filter that could be made from a small piece of an N95 mask. The project was a success with thousands of masks made and distributed.

When the need for the 3D printed masks had run its course, WISA decided to support the AfriSpacer – a simple, low-cost attachment for a plastic bottle which can be used with a traditional asthma inhaler to increase its effectiveness. [Read more.](#)