

STEM IN ACTION

MEDIA KIT



PROJECT STATISTICS

7169

7476

Males

Females

14645 Project Participants: June 2025

9946

3936

61

640

62

African

Coloured

Indian

White

Other

ABOUT STEM IN ACTION

STEM in ACTION is a holistic Science education support programme designed to enhance the teaching and learning of Physical Sciences through a hands-on, constructivist approach. Aligned with the Curriculum and Assessment Policy Statements (CAPS) of the Department of Education, the programme uses practical Science experiments as powerful teaching tools, blending them with a robust e-learning component.

Learners and educators engage with data-logging equipment, electronic sensors, and tailored digital simulations, ensuring a dynamic and interactive learning experience. This blended model promotes not only academic achievement but also genuine enthusiasm for Science.

Targeting Grade 8–12 learners and their educators, STEM in ACTION provides targeted support in Mathematics and Physical Science, with the aim of equipping students with the skills necessary to pursue further studies in Science and Technology, Engineering and Mathematics. The programme seeks to increase the number of learners in the Eastern Cape who qualify for STEM degree pathways.

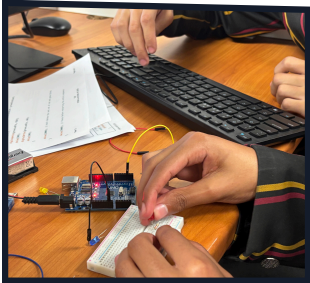
In addition to academic support, STEM in ACTION fosters career awareness through STEM career exploration opportunities, empowering both learners and teachers to envision a future in STEM fields.

STEM IN ACTION VISION

To become a recognized non-profit leader in delivering innovative solutions and impactful services for the teaching and learning of Science and Technology in South Africa.



SELECTED LEARNER PROJECT (SLP)



STEM in ACTION partners with learners, educators and parents to holistically and adequately prepare selected learners from schools within the Metro, to enter studies in Engineering. Grade 9 learners, with an average of at least 75%, are invited to apply for SLP. Learners are introduced to coding through Arduino

- 74 learners from 8 schools

SELECTED SCHOOLS PROJECT (SSP)



STEM in ACTION partners with functioning yet marginalised schools, to promote effective teaching and learning of Physical Science. Learners, as well as their educators, participate in laboratory sessions at NMU Missionvale campus.

- 20 schools in Nelson Mandela Metro

GETTING AHEAD IN TECHNOLOGY & ENGINEERING (GATE)



Learners, from STEM in ACTION's SSP schools, achieving 70% or more in Maths and Natural Science at Grade 8 level, are selected to participate in the GATE 9-12 project. This Physical Science, Mathematics and Career Exploration support serves to promote STEM-career exposure and selection post Matric.

- 68 learners per Grade 9-12
- 12 schools

CAREER EXPLORATION



Learners with the aptitude for Science and Technology are equipped to make informed decisions regarding Science and Engineering career pathways. This is facilitated by interest profiling, further partnering with NMU departments, industry, site visits and career shadow exposure within these fields.

EDUCATOR DEVELOPMENT



To further support STEM in ACTION's vision of providing innovative solutions to Science education, educator development workshops expose educators to various resources; teaching, learning, assessment strategies and laboratory skills. These can be employed to confidently and enthusiastically introduce and teach various topics in Physical Science & Life Sciences education.

- Open to all Physical and Life Science Educators

UNIVERSITY OF THE FREE STATE COLLABORATION



Nelson Mandela University is one of the six universities which form part of the UFS Collaboration. This collaboration sees the introduction of Family Math (Gr R & 3 Math Educator-Learner and Parent initiative) and Key Concepts in Science to our school communities in the Metro. The latter project involves Gr 8 and 9 educators participating in quarterly training at our STEM in ACTION Centre to support the teaching of the Science component of Natural Science.



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