

# Zambia

IAEA Member State since January 1969

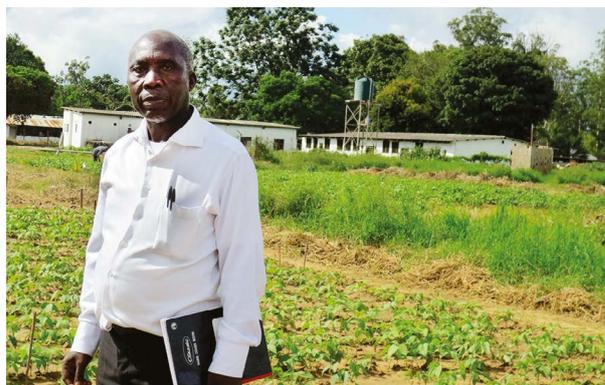
## Selected achievements

**On-going:** A linear accelerator (linac) is produced to replace the cobalt-60 unit at the Cancer Diseases Hospital, supported with contributions by the US Government.

**2019:** Cancer Diseases Hospital hosts first radiotherapy course for radiation therapists.

**2018:** Cancer Diseases Hospital applies for regional designated centre status in oncology.

**2007:** The Cancer Diseases Hospital, Zambia's first cancer centre, is inaugurated.



A lecturer at the Department of Plant Science stands in the experimental field of the University of Zambia, where new nuclear-derived strains of crops are tested for their drought resistance and yield. (Photo: University of Zambia)

## National priorities

- Human health
- Management of radioactive waste

## Main areas of IAEA support

- Nuclear safety
- Agriculture
- Human health
- Livestock health and reproduction

## Project successes

### Food safety

With support from the IAEA's technical cooperation programme, Zambia's Central Veterinary Research Institute (CVRI) has enhanced its capabilities to monitor residues in animal products to ensure food safety. These efforts are helping to prevent potentially harmful chemicals entering the food supply and guide the country's use of antimicrobials in animal production. The IAEA provided training of scientists and the provision of new equipment and transfer of innovative technology to analyse hazardous chemicals in food. This initiative is a major step in safeguarding local food quality and facilitating exports to neighbouring countries, which was previously not possible or constrained due to lack of residue testing. IAEA support has also enabled CVRI to attain and maintain accreditation to ISO 17025 — a measure of competence and reliability by end users of the analytical services.

### Food and agriculture

With IAEA support, Zambia has considerably enhanced its agricultural capabilities and practices based on nuclear technology, particularly in employing mutation breeding programmes for crop improvement. This initiative has resulted in the release of two new cowpea

varieties with enhanced characteristics, which were released to be used by farmers. They offer higher yields in drought conditions and improved resistance to diseases and pests, leading to sustainable benefits for Zambia's agricultural sector and a positive impact on farmers' incomes.

## Participation in the major initiatives

- Rays of Hope
- ZODIAC

## Date of imPACT Review(s)

2010



Patients await treatment at the Cancer Diseases Hospital in Lusaka, Zambia. (Photo: L. Potterton/IAEA)

## IAEA support received in the 21st century



## Contributions to South-South and triangular cooperation

