

## > OUR VALUES

- ✔ Honesty, Integrity and Probity.
- ✔ Citizenship.
- ✔ Professional consciousness.
- ✔ Security, Safety and Ecological-Responsability.



**CNESTEN**

Kingdom of Morocco  
National Centre  
for Nuclear Energy, Science and  
Technology



**CNESTEN**

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**Nuclear science and technology applications  
for the benefit of human development**



Centre for Research, Training and Expertise  
in the field of Nuclear Science and Technology

## MISSIONS (Created by the law N° 17-83)

A state owned institution operating under the supervision of the Ministry of Energy, Mines and Sustainable Development.

Developing scientific research in nuclear science and technology.

Promoting nuclear science and technology applications in social and economic sectors.

Contributing to the development of nuclear infrastructure for a nuclear power program.

Providing the state with technical support in the field of radiological safety and security.

## MAIN SECTORS OF ACTIVITY

### HEALTH AND LIFE SCIENCES



- Production of Radiopharmaceuticals (Iodine 131, Tc99m, Cold kits,...),
- Research in molecular biology and radiobiology, food and nutrition.

### ENVIRONMENT AND NATURAL RESOURCES



- Contribution of Nuclear Analytical Techniques for pollution assessment in soil, air, river and marine mediums and valorization of natural resources.

### AGRICULTURE



- Assessment of soil erosion using fallout radionuclides,
- use of nuclear tools for animal reproduction and plant-soil relationship.

### WATER AND CLIMATE



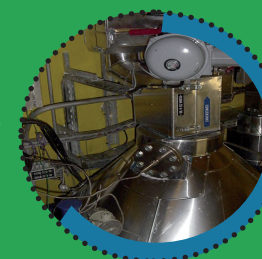
- Use of nuclear and isotopic techniques to study water cycle and climate.

### INDUSTRY



- Quality control of industrial products, processes and facilities using NDT, radioactive sealed sources and radiotracers,
- Nuclear instrumentation.

### RADIOACTIVE WASTE MANAGEMENT



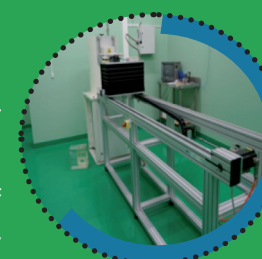
- Collection, treatment, transport of radioactive materials,
- R&D in conditioning materials.

### ENERGY



- Contribution to the development of necessary nuclear infrastructure for a nuclear power program (safety & security, radioactive waste management, regulation, human resources,...).

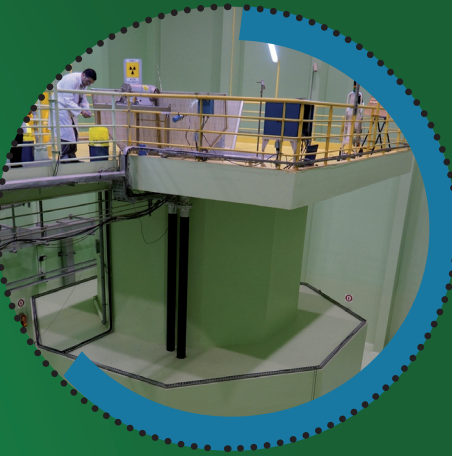
### NUCLEAR SAFETY AND SECURITY



- Acting as a technical support organization to the national authorities in the fields of radiation and nuclear safety and security, safeguards, emergency preparedness and response.

## INFRASTRUCTURE

The Maamora Nuclear Research Centre: a multipurpose nuclear facility established, since 2003, which includes a research **reactor, 2MW power and several** laboratories dedicated to the development of nuclear applications.



## PARTENERS :

### NATIONAL PARTNERSHIP

- Universities
- Public research institution
- Local communities
- Non governmental organizations
- Socio-economical operators

### INTERNATIONAL COOPERATION

- International Atomic Energy Agency
- African Regional Cooperation Agreement AFRA
- Nuclear Research Centres and Universities

## EDUCATION AND TRAINING

- Radiation protection,
- Non Destructive Testing,
- Nuclear safety and security,
- Isotopic Hydrology,
- Reactor technology,
- Radioactive waste management.

## HUMAN RESOURCES

230 Employees including :  
73% Doctors, Engineers and Technicians

