

MEPhI

On Collaboration with Rwanda

Dmitry Savkin,
Vice-Rector
of National Research
Nuclear University MEPhI

November 17-21, 2025

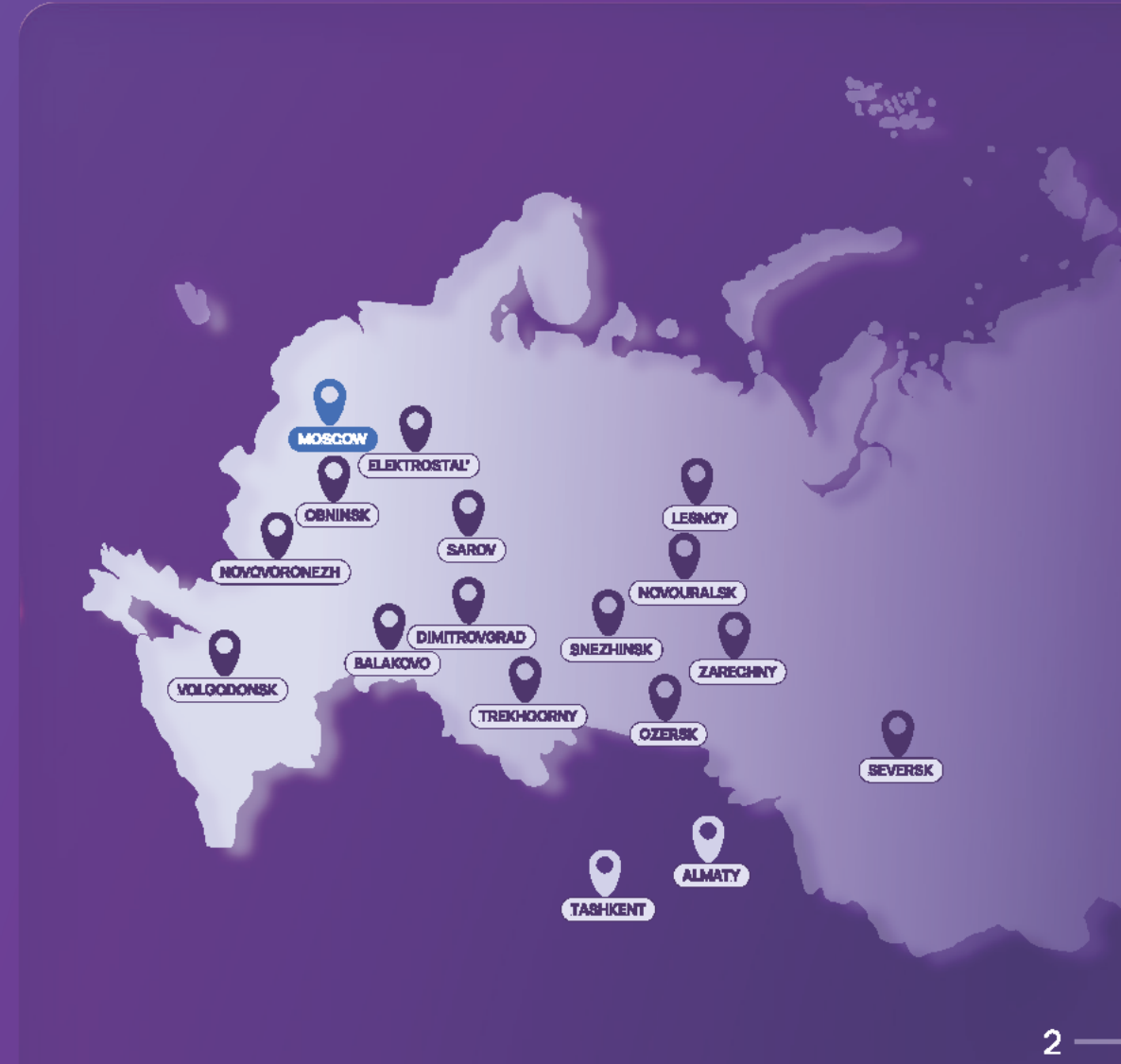


Global MEPhI



27 000+ Global MEPhI students

2163 Foreign students **16** Regional and international branches divisions



6 Nobel Prize laureates worked at MEPhI



Nikolay
Basov

Pavel
Cherenkov

Nikolay
Semenov

Igor
Tamm

Ilya
Frank

Andrey
Sakharov



1942

**Moscow Mechanics
Institute of Ammunition**



1953

**Moscow Engineering
Physics Institute**



2008

**National Research
Nuclear University MEPhI**



2025

**National leader
World-class University**

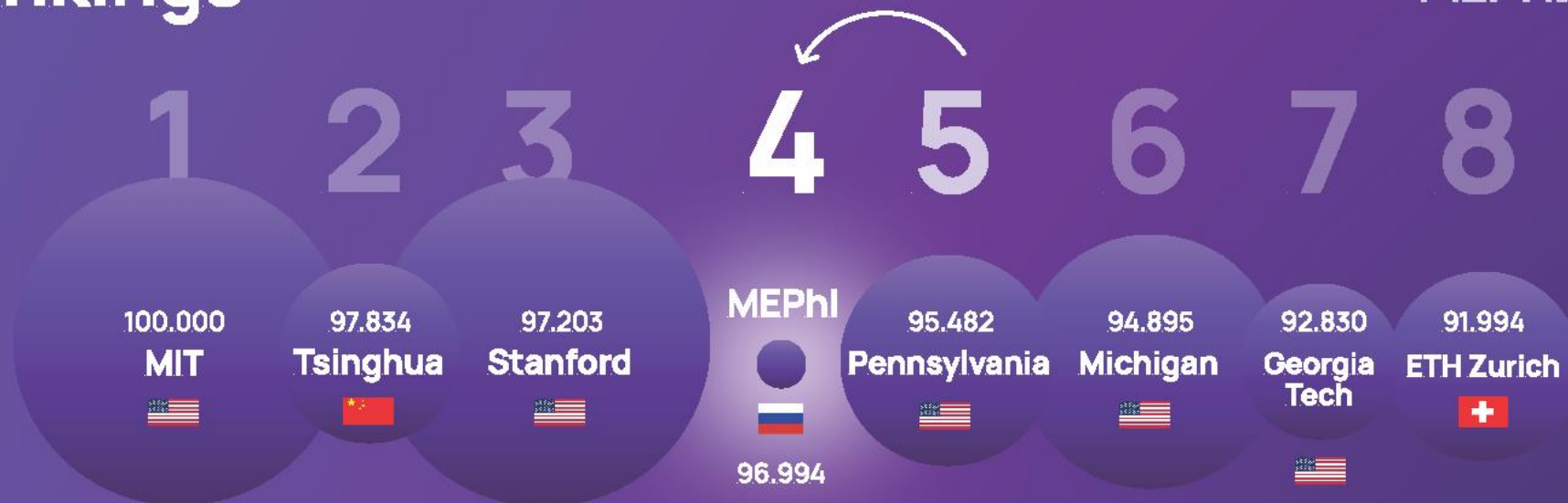
MEPhI in global rankings



2025

Nuclear Education and Technology

MEPhI in world university rankings



#88

Physics & Astronomy

#359

Engineering & Technology



#59

Physics

#71

Optics



#86

Optics

#226

Natural Sciences

#351+

Computer Science and Information Systems



#151-200

Physics

MEPhI in Russian university rankings

#1

Nuclear Energy and Technology
Electronics, Radio Engineering,
and Communication Systems

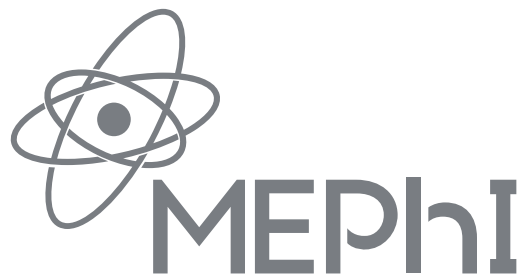
#2

National university rankings

#3

Mechanical engineering
and Robotics

#6



2019



CNST is complex facility that **combines various objects facilities** that fulfill Rwanda's justified needs for nuclear and radiation applications.

The total **CNST construction period** is indicatively **7.6 years**

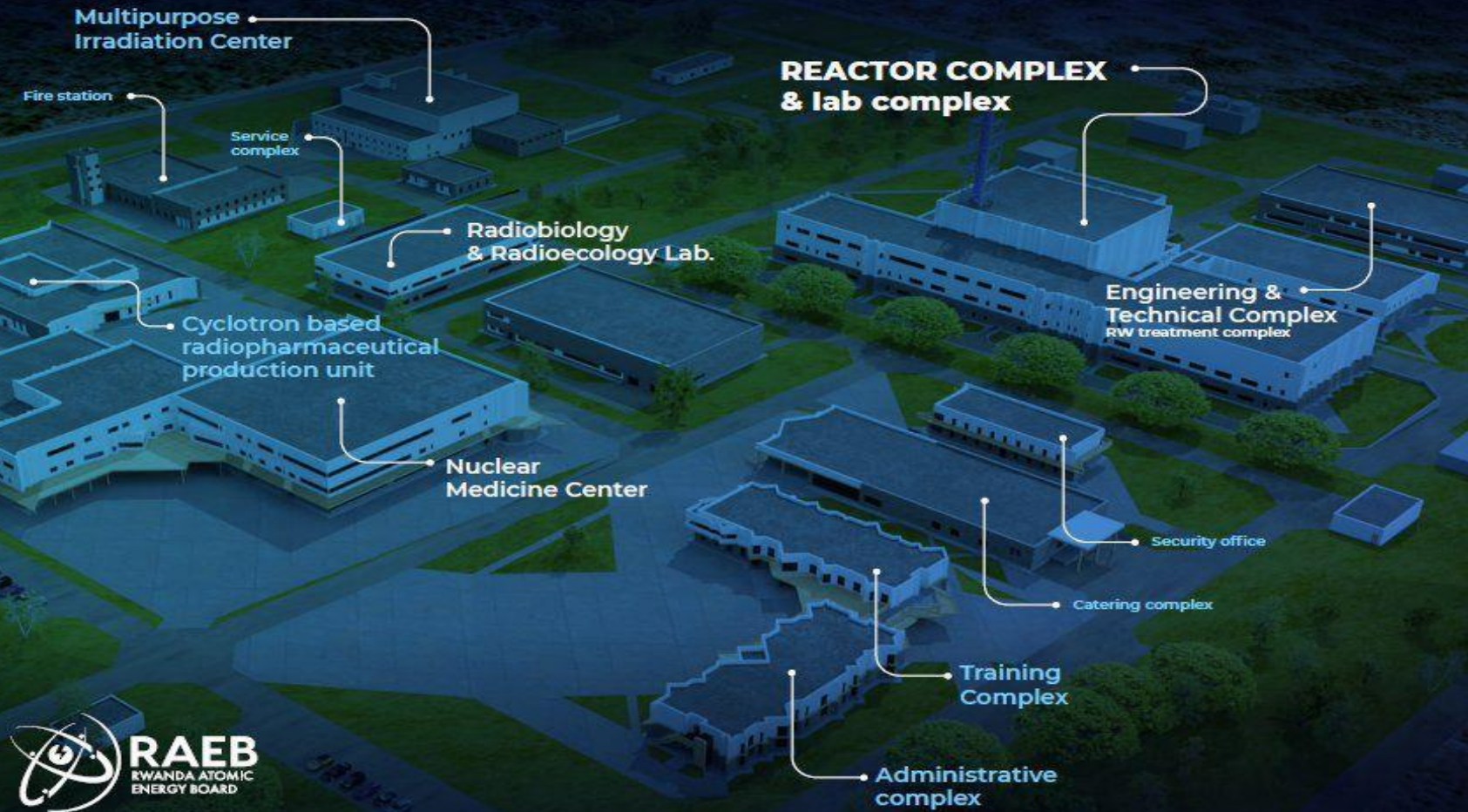
It is recommended to construct the Center in 2 phases.

Phase 1 – facilities of high social significance and commercial attractiveness:

- Cyclotron Radiopharmaceuticals Production Unit
- Multipurpose Irradiation Center
- Training Complex as a part of an Administrative Complex
- Engineering infrastructure and supportive facilities necessary for CNST operation

Phase 2 – Nuclear Research Facility and relative scientific laboratories

- Reactor Complex which consists of 0.4 kW Research Reactor (planned to be upgraded up to 5 MW) and linked with RR lab. complex.
- Radiobiology and radioecology laboratory
- Nuclear Medicine Center
- Engineering & Technical Complex with Radioactive Waste treatment complex



CENTER FOR NUCLEAR SCIENCE AND TECHNOLOGY

Development of the National Research Nuclear University MEPhI in cooperation with the Rosatom State Corporation until 2030



ROSATOM

5 Groups of Projects

01 Leaders of Tomorrow

02 Country of Rosatom

03 New Horizons

04 Global Challenge

05 Digital World

Experience of Collaboration with Rwanda

- ✔ the University of Rwanda as a partner University
- ✔ Goals:
 - to develop own nuclear trainers for Rwanda,
 - to develop a culture of responsibility and safety in the nuclear energy usage



Main stages of the project with Rwanda

01

2019-2020. Primary stage

Initial selection of 37 applicants from Rwandan schools. Providing of introductory lectures. An agreement was reached with the University of Rwanda on a joint educational program

02

2020-2021. Program development

Opening a bachelor's degree program in Physics. Development of educational modules on nuclear energy, reactor safety, and radiation ecology. Planning the creation of a Nuclear Technology program with the support of the IAEA

03

2021-2022. Adaptation period

Overcoming restrictions related to the COVID-19 pandemic. Coordination of the four-year joint program "Nuclear sciences and technologies"

04

2023-2025. Implementation of Collaboration in the field of Education

February 2023: Educational marathon with 34 students. Conducting interactive events: hackathons, quizzes. June 2025: International student championship Global HackAtom

05

2025-2029. Implementation of joint bachelor's degree program "Nuclear science and technology"

The first group of 30 students started their studies

Educational Program Implementation Plan



Academic year 2025/26.

Semester 1 – studies in Rwanda + Russian as a foreign language.

Semester 2 – studies in Rwanda + Russian as a foreign language.

Academic year 2026/27.

Semester 3 – studies in Rwanda + Russian as a foreign language.

Semester 4 – studies in Rwanda + Russian as a foreign language.

Academic year 2027/28.

Semester 5 (September, October, November) – studies in Rwanda + Russian as a foreign language.

Semester 5 (November and December) – studies in Russia.

Semester 6 (January, February, March) – studies in Russia + practice at Rosatom State Corporation enterprises.

Semester 6 (March, April, May, June) – studies in Rwanda.

Academic year 2028/29.

Semester 7 (September, October, November) – studies in Rwanda.

Semester 7 (November and December) – studies in Russia.

Semester 8 (January, February, March) – studies in Russia + practice at Rosatom State Corporation enterprises.

Semester 8 (March, April, May) – studies in Rwanda.

Semester 8 (June) – graduation project defense in Rwanda.

5-8th semesters – The diploma project is prepared under the supervision of two supervisors (Rwanda and Russia).

July 2029 – the first graduation of the joint educational program.







AWARD CERTIFICATE

is ISSUED TO

Team Perrette
The plug

FOR SUCCESSFUL PERFORMANCE IN

GLOBAL HACKATOM RWANDA 202

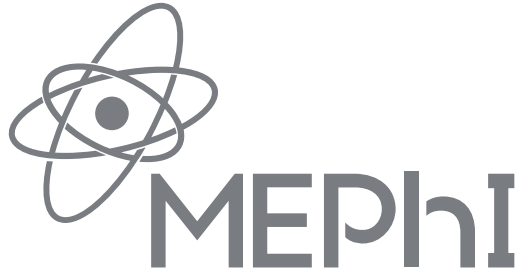
JUNE



©BNINSKTECH

TATYANA TERENTYEVA
Deputy Director General for Human Resources
ROSATOM





**Dr. Dmitry Savkin,
Vice-Rector of MEPhI**

DASavkin@mephi.ru

+7 915 124 52 15

