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## **CLUSTER'S APPROACH FOR INDUSTRIAL AND EDUCATIONAL PARTNERSHIP**

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**RUDN UNIVERSITY**

56 years old

30000 students

7500 foreign students

160 countries

450 nations and nationalities

124 in QS WUR Internationalization

250 agreements with foreign Universities

2018: 3200 PhD, 100 postdocs. Campus - 8000 students. More than 77 thousand graduates of the University work in 170 countries, among them more than 5500 holders of PhD and Doctorate degrees. Specialists are prepared in 62 majors and lines of study.

**The University's slogan:**  
***“Discover the world within  
one University!”***

Share of students enrolled in master's and postgraduate programs, who have a bachelor's, specialist's or master's degree awarded by other institutions, in the total number of master's and postgraduate students - 45.2%

### Schools and Departments

Agro-Technological Institute; The Institute of Biomedical Problems; Faculty of Humanities and Social Sciences; Engineering Academy Institute of Medicine; Faculty of Science; Philological Faculty; Ecological Faculty; Faculty of Economics ; Institute of Law; Academic Research Institute of Gravitation and Cosmology; Institute of applied technological research and expertise

**RUDN University is a multiprofiled university, which integrates research and education in dozens of fields. RUDN encompasses 7 faculties (10 institutes, 156 scientific and educational laboratories, 4 university-wide research and education centers.**

**176 PhD programs**

**PhD programs taught in English 2016 – 11 PhD; 2017 – 28; 2018 - 36.**

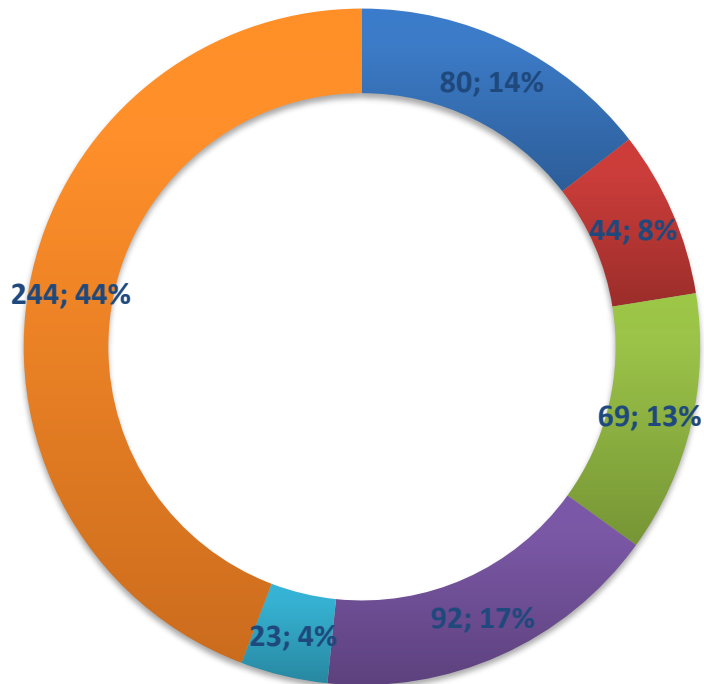
## 3d Level Programs 2018 - 3321

RF – 2191 (66%)

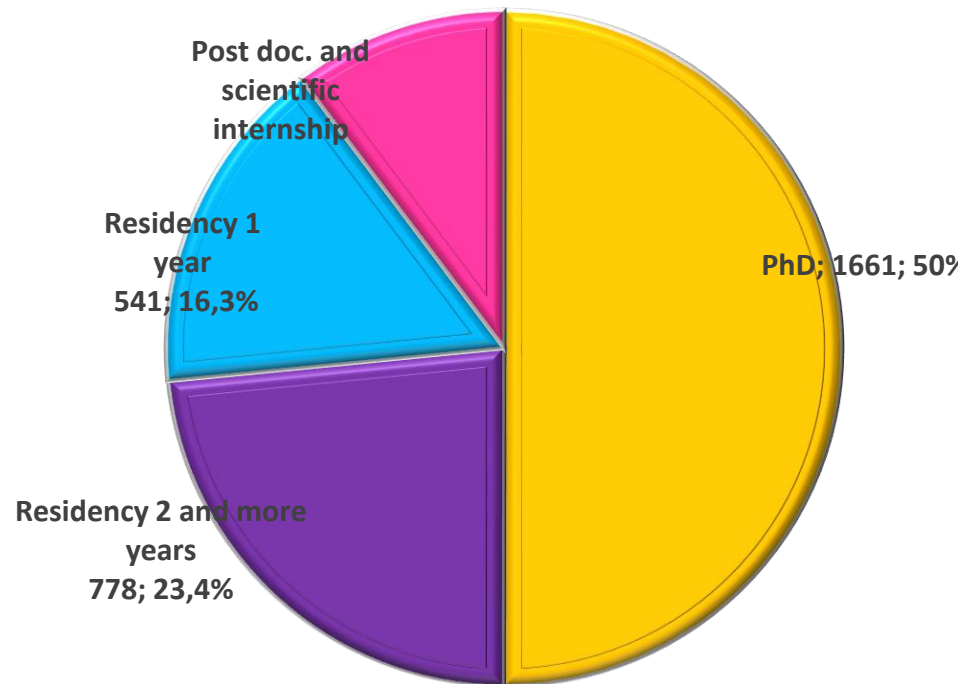
- Scholarship – 1120 (51,1%);
- With payment – 1071 (48,9%)

Other countries – 1130 (34%)

- Scholarship – 598 (52,9%)
- With payment – 532 (47,1%)



■ Asia ■ America ■ Africa ■ Middle East ■ Europe ■ UIS



# We manage processes, not structures.

Cluster's approach - the organizational and management model is a synergy of all international project activities of RUDN in Russia and abroad.

Philosophy of the Cluster's approach is a formation of a human capital of the partner's country through retention of knowledge and skills, gained by participation in the cluster

Cluster's approach - a new technology of export of education for the creation of educational, research and industrial partnerships abroad

The RUDN Scientific Research and Education Cluster is a model of promotion its education as a significant element of partner countries' economies development



# Step-by-step design of partnership in the partner country

## *CONSORTIUM of PARTNER ORGANIZATIONS and RUDN*

Agreement / memorandum / protocol / exchange of letters:

- on the formation of a regional cluster with the government authorities of the partner country (depending on the level of cooperation with the partner country may include the Ministry of Education, the Ministry of Health, Scholarship Committees, etc.)
- on the formation of the consortium of educational organizations for the joint implementation of the cluster's approach in the field of science, education, industrial-educational partnership.
- on the participation of industrial partners in the implementation of the cluster's approach in the field of science, education, industrial and educational partnership in the partner country (bilateral or multilateral).
- on cooperation in science and education between RUDN and the partner in implementation of the Cluster's approach.

### Coordination council

representatives from: national authorities, universities, business structures, media, individuals, alumni associations

Working programs of cooperation in certain areas within the framework of the implementation of the Cluster's approach, etc.

Road maps

Reports

# Cluster topics

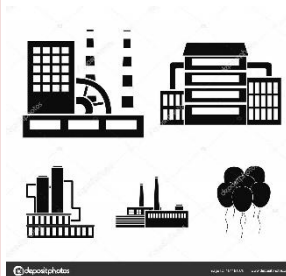
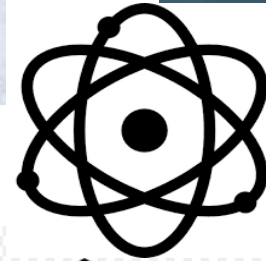
- important for the region (country - partner)
- available for the development of the relevant research topics or programs

## Cluster AFRICA

Angola, Zambia, Gambia, Namibia

- Medicine (Angola, Zambia, Gambia, Namibia)
- Engineering (Angola, Zambia, Gambia, Namibia)
- Ecology (Angola, Zambia, Namibia)
- Regional studies (Angola, Zambia, Gambia, Namibia)
- Agrotech (Angola, Namibia)
- Transport (Zambia)

## Stakeholders:







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# Thematic cluster Medicine

virology

health management

simulation centers and  
telemedicine

Industrial and educational projects

Participation in the National Development Programs

- Order for personnel training for various sectors of the economy (150 students in medical specialties for South Africa).
- Methodological assistance in the creation of Simulation Training Centers in medical universities - partners. Training and staff development for simulation, distance learning and telemedicine.
- Hospital Amerigo Bouavida (the main hospital of Angola) - methodological assistance in creating a clinical base for training of students, residency students, advanced training of medical workers.
- Development and implementation of the MBI “Healthcare Management Network Programs” (targeted order).
- Module educational programs on the prevention, diagnosis and treatment of HIV infections at regional treatment and prevention facilities.

# Thematic cluster Medicine

## Universities - partners

Gambia: University of Gambia

Namibia: University of Namibia, International University of Management

Zambia: Copperbelt University, University of Zambia

Angola: Agostinho Neto University

South Africa: Freestyle University

## Cooperation with state authorities of the partner country:

- Ministry of Education of Namibia, Angola, Zambia, South Africa
- Ministry of Health of Namibia, Angola, Zambia, South Africa

# Case: Zambia

The agreement was signed with the Ministry of Higher Education of Zambia on the formation of a regional cluster.

The number of specialists prepared by RUDN - 125

**Employers' Club: Companies (state and private)**

- Tazara Zambia railway
- Toyota Zambia
- ZESCO Limited (Electro energy)
- Kafue Steel Plant (Universal Mining & Chemical Industries Ltd)
- AfriConnect Zambia Limited (Internet services in Africa)

**Agreement with the Zambian Alumni Association of the Russian Federation and the USSR on assistance in the employment of graduates of RUDN.**

**Cluster's approach involves all levels of education and research.**

**Project activities:**

- on the basis of Copperbelt University (on 14/12/2018 Agreement was signed)
- Center of Russian language learning and pre-university training
  - Profile classes of RUDN University in medical and engineering
  - Working programs of cooperation with medical institute and Academy of Engineering of RUDN University
  - Olympiads in Mathematics, Computer Science, Physics



Currently, RUDN takes up about 40% of applicants from the Cluster's countries. By 2020 due to the project activities we plan 60%.

Country	Number of students					Increase 2016 по 2020 гг., %
	2016	2017	2018	2019	2020	
Namibia	128	123	122	130	140	9
Zambia	50	50	59	70	80	38
South Africa	130	139	126	130	135	2
Angola	62	52	63	80	100	38
Madagascar	21	28	28	35	45	54
$\Sigma$	391	392	398	445	500	22

# Funding

- **For the academic mobility**
- The National Research Universities Project
- Russian Academic Excellence Project 5-100 and others
- **For students**
- Russian State Scholarships for foreign students
- RUDN Scholarships for the talented students
- PhD advanced Program
- Residency+ Program
- Discounts for the first year of training and the possibility of installment

# Points for discussion:



**There is no single recipe for successful cooperation, but there appear to be some important underpinning capabilities.**

- **state support in the partner country**
- **financing**
- **highly skilled scientific and pedagogical staff**
- **modern topics and interdisciplinary research**
- **reputation**