CLUSTER’S APPROACH FOR INDUSTRIAL AND EDUCATIONAL PARTNERSHIP

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

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.

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%
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%)

Post doc. and scientific internship

PhD; 1661; 50%

Residency 1 year
541; 16,3%

Residency 2 and more years
778; 23,4%

Country distribution:

Asia | America | Africa | Middle East | Europe | UIS

244; 44% | 80; 14% | 44; 8% | 69; 13% | 23; 4% | 92; 17%
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)
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 graduators 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%.

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of students</th>
<th>Increase 2016 no 2020 гг., %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2016</td>
<td>2017</td>
</tr>
<tr>
<td>Namibia</td>
<td>128</td>
<td>123</td>
</tr>
<tr>
<td>Zambia</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>South Africa</td>
<td>130</td>
<td>139</td>
</tr>
<tr>
<td>Angola</td>
<td>62</td>
<td>52</td>
</tr>
<tr>
<td>Madagascar</td>
<td>21</td>
<td>28</td>
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<td><strong>Σ</strong></td>
<td>391</td>
<td>392</td>
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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
There is no single recipe for successful cooperation, but there appear to be some important underpinning capabilities.

Points for discussion:

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