

# BRICS NETWORK UNIVERSITY COLLABORATION in the ENERGY sphere

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# M.V. Lomonosov Moscow State University

## TIMES HIGHER EDUCATION World University Rankings:

**59**-th place in the “**Physical Sciencies**” field

**65**-th place in the “**Engineering and technology**” field

*In the top 100 BEST WORLD UNIVERSITIES RANKING*

**3**-d place among **BRICS Universities**



**One of the most important knowledge field priorities in M.V. Lomonosov Moscow State University Faculty of Physics is ENERGY**

## **OUR MAIN GOALS**

**We are interested in formation of academic resource for integrated data scoring and data analysis. Our aim is to create effective international scientific community for sharing new ideas, experience and resources. We would like to form, develop and realize joint educational programs for students and post-graduates in cooperation with BRICS NU members.**

**We would like to increase BRICS NU students and post-graduates mobility and communication.**



# EDUCATION PROCESS

## *Faculty of Physics*

### **7 Scientific divisions:**

- Division of Experimental and Theoretical Physics
- Applied Mathematics Division
- Solid State Physics Division
- Division of Radio Physics and Electronics
- Nuclear Physics Division,
- Geophysics Division
- Astronomy Division

### **32 Chairs**

**37** educational programs for master students



# JOINT EDUCATION PROGRAMS I

**Faculty of Physics M.V. Lomonosov Moscow State University realizes scientific research projects and educational programs for students and post-graduates in the ENERGY SAVING and ENERGY EFFICIENCY fields.**

**We realize educational programs and scientific research projects in the following areas:**

- MATERIAL SCIENCE (semiconductors, superconductors, magnetic materials and so on)**
- PHOTONICS**
- SOLAR POWER ENGINEERING**
- THERMOELECTRICITY**
- LASER PHYSICS**
- NANOSTRUCTURES (scientific investigation and application possibilities)**
- OPTICAL and ELECTRONIC TRANSPORT properties analysis in condensed matter materials and low-dimensional structures**



## **JOINT EDUCATION PROGRAMS II**

**We would like to invite our partners within BRICS NU to form joint educational programs for students and post-graduates specialized in ENERGY field.**

**Within joint educational programs we are ready to deliver lectures and hold seminars for visiting students and post-graduates, we can also organize summer and winter schools and conferences for students and post graduates. We have possibilities for wide use of on-line tools and on-line support during education process, such as research project web pages, cloud-based servers and so on.**



# JOINT SCIENTIFIC PROGRAMS

**We would like to invite our partners within BRICS NU to form and to carry out joint scientific and research programs for young scientists, students and post-graduates in cooperation with leading scientific groups specialized in ENERGY field, funded by joint Russian scientific programs and corresponding scientific programs in BRICS countries.**



## **CURRENT PARTNERS IN CHINA**

- National Laboratory for Superconductivity, Institute of Physics, Chinese Academy of Sciences
- International Center for Dielectric Research, Xian Jiaotong University
- Tsinghua University
- Xinjiang Technical Institute of Physics and Chemistry, CAS
- Institute of Semiconductors Chinese Academy of Sciences

## **CURRENT PARTNERS IN INDIA**

- Indian Institute of Technology (Mumbai)
- Lakshmi N. Mittal Institute of Information Technology (Jaipur)





# OUR CONTACTS

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**Thank you for attention!**

