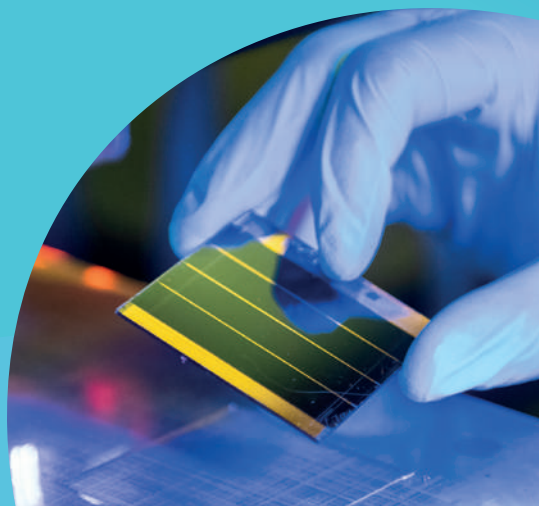




STRENGTHS OF THE INTERNATIONAL MASTER'S PROGRAM

- Harvesting the sun's abundant energy is the future solution of global energy problems
- The program aims to develop the next generation of specialists in the field of Solar Energy
- Applied and relevant industrial knowledge
- High future demand and employability
- Interdisciplinary program which covers science, technology, legal issues, economics, and public involvement



CONTACT INFORMATION



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MISIS
UNIVERSITY

Building
a Better
Future

SCIENCE AND MATERIALS OF SOLAR ENERGY



2024

PROGRAM



The program is aimed at advancing the theoretical and practical skills necessary for the development and improvement of this promising direction. Upon completion of the program, the students will be capable of using new technologies and innovative ideas for implementation of environmentally friendly solutions to global energy problems.

THE AIMS OF THE PROGRAM ARE:

- TO TEACH THE SCIENCE OF SOLAR ENERGY HARVESTING, GENERATION OF ELECTRICITY AND ENERGY EFFICIENCY
- TO DEVELOP EXPERTISE IN THEORETICAL AND PRACTICAL ASPECTS OF THE SOLAR ENERGY INDUSTRY
- TO PREPARE STUDENTS FOR EMPLOYMENT IN THE SOLAR ENERGY INDUSTRY
- TO TEACH SKILLS FOR FURTHER RESEARCH AT THE PHD LEVEL

SKILLS AND CAREER OPPORTUNITIES

Successful completion of the program equips the students with the necessary theoretical knowledge and practical skills. The students will be aware of various types and constructions of solar cells as well as production techniques and processes deployed by the micro- and nano-electronics industries. They will also gain knowledge about fundamental physical and chemical properties of materials used in the electronics industry for solar cell production. The program provides knowledge about a wide spectrum of applications and qualities of new materials and structures designed at the nano-scale, which makes successful students highly employable in the renewable energy industry.

FACULTY



Boris Eidelman PhD in Technical Sciences

The member of section "Photoelectric conversion of energy" of "Scientific Council of Complex Problem "Energy Direct conversion Techniques" Russian Academy of Science; The member of Supervision Board of Russian Solar Energy Association; The member of Supervision Board of Noncommercial Partnership on Renewable Energy Development "Eurosolar Russia" (Russian Division of European Association "Eurosolar").



Ekaterina Gosteva PhD in Physics and Mathematics

Associate professor, Department of Materials Science of Semiconductors and Dielectrics, National University of Science and Technology MISIS.



Dmitry Podgorny PhD

Deputy head of the Department of Materials Science, Semiconductors and Dielectrics physical and mathematical.

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