Global Research Outreach 2022

We annually call for innovative research proposals, open to the world's leading universities.

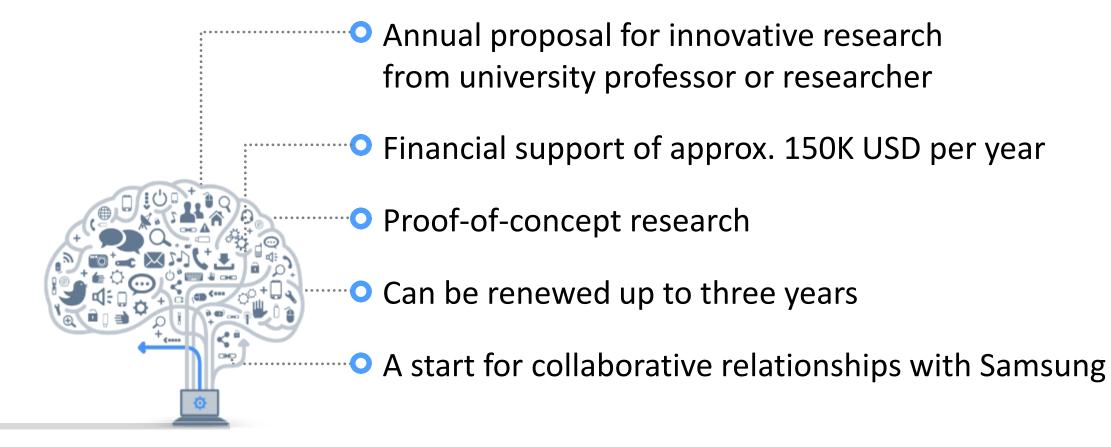




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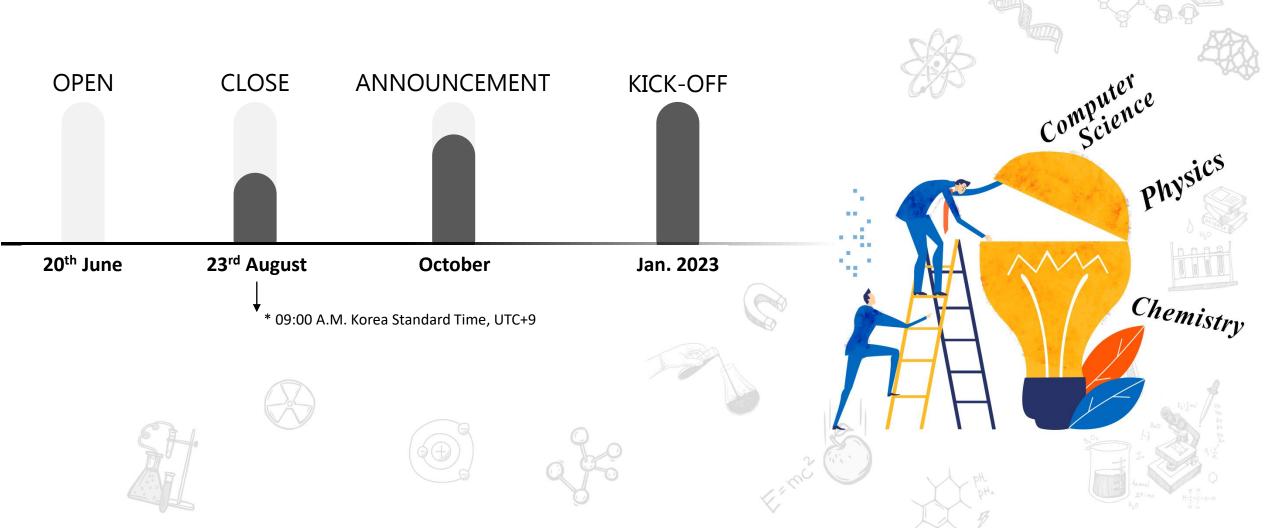
Since 2009

20 countries, 150 Universities, 450 Winning Projects



2022 GRO Timeline

We look forward to your innovative proposals

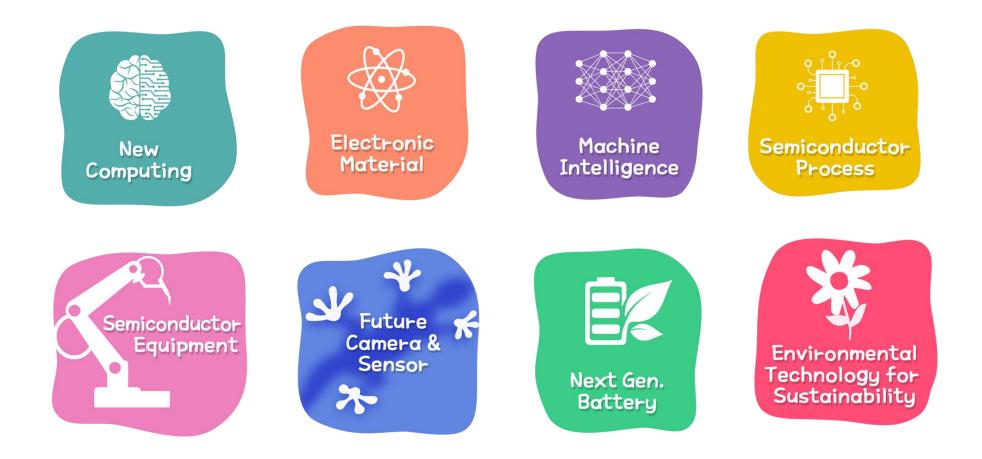


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2022 Open Research Themes

Seeking proposals in 8 themes



List of 2022 Research Topics



Theme	Sub-Theme
1. New Computing	 1-1 Computing Devices & Architecture 1-2 Rack-scale Computing 1-3 Intelligent, Reliable and High efficient Storage for HPC 1-4 Technologies to Attack the Memory and Communication Wall
2. Electronic Material	 2-1 Inorganic P-type Semiconductor 2-2 Oxide semiconductor based Memory Device 2-3 (Ferroelectric, Resistive, Phase change, Magnetic) Material based Memory Device 2-4 Scalable Channel Material for Logic Device beyond Si 2-5 Soft Robotics 2-6 New Materials
3. Machine Intelligence	3-1 Multi-task Vision Al 3-2 Tiny Machine Learning 3-3 Future Mobility Technology
4. Semiconductor Process	 4-1 ALD for Semiconductor 4-2 Ultrathin, High Quality SiO2 for Extremely Large Surface Area 4-3 Sub-10nm, High Aspect Ratio Trench Etching Technique 4-4 3D Monolithic Integration
5. Semiconductor Equipment	 5-1 Fundamental Automation/Manipulation Technology for Semiconductor Equipment 5-2 AI/ML Solutions for Semiconductor Equipment & Processes 5-3 Technology for Semiconductor Metrology and Inspection
6. Future Camera & Sensor	6-1 Low-height High-zoom Camera Module Optics, Algorithms, and Camera System 6-2 Short to Long IR technologies, Coatings and Devices for Imaging & Sensing Applications
7. Next Gen. Battery	 7-1 Safety-enhanced Battery based on LIB chemistry 7-2 Battery Reuse & Recycling 7-3 Low-Cost Battery
8. Environmental Technology for Sustainability	8-1 Carbon Capture and Utilization 8-2 Virus Sensing, Diagnosis, and Inactivation

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For more questions, please contact below.

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