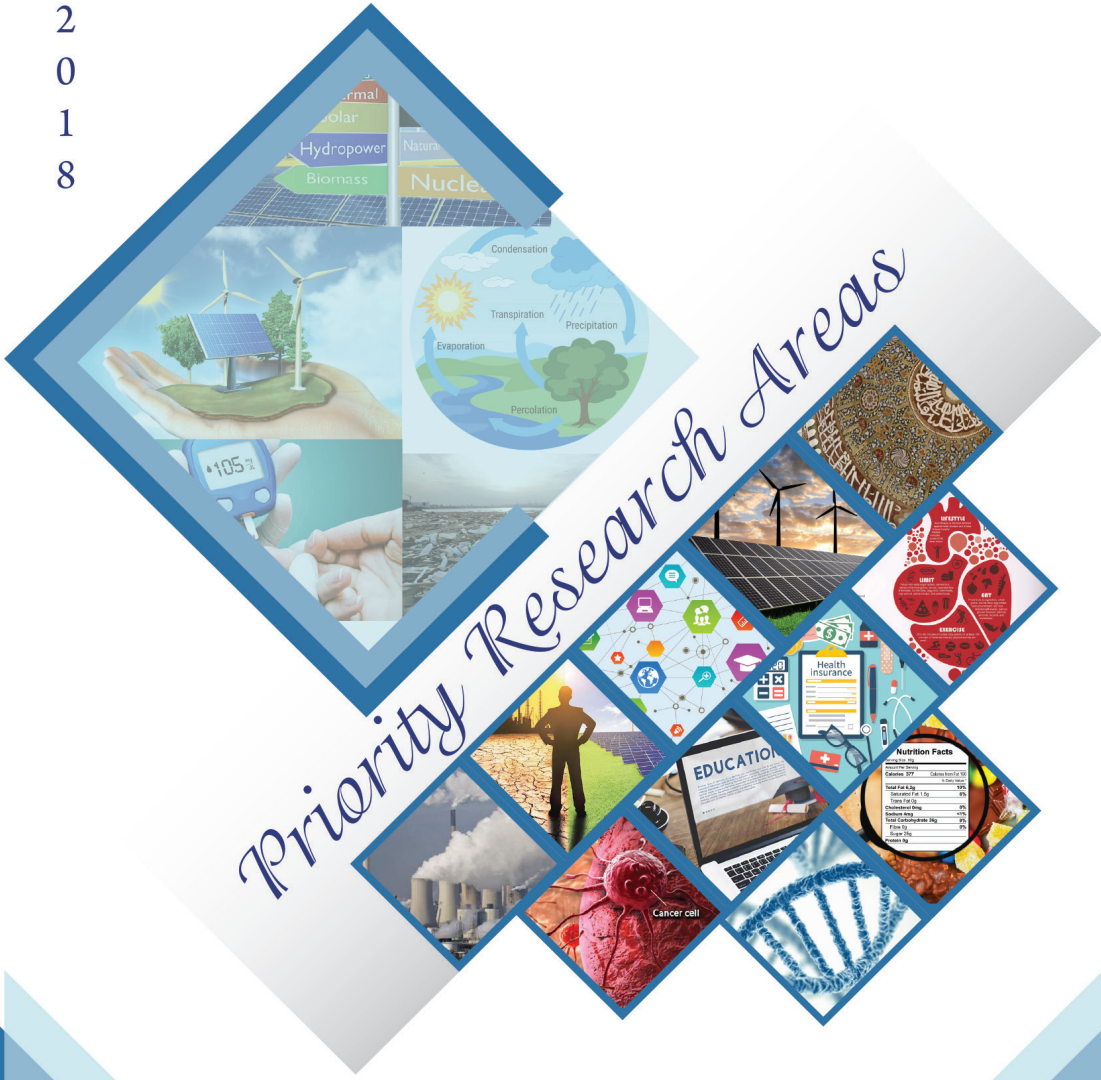




Kuwait University

Office of the Vice President for Research

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Priority Research Areas

Research Sector

RS Proposes New Areas of Priority Research

Priority Research Areas 2018

1. Sustainability, Renewable and Alternative Energy Resources.

- Energy Diversification.
- Energy Efficiency Technology.
- Nanotechnology Advanced Materials.
- Improve and Optimize the Use of Available Energy Technology.
- Green Architectural Design.
- Development of Construction & Building Materials.

2. Water Resources, Management and Technology.

- Sustainable Water Development.
- Water Conservation.
- Rain Harvest.
- Cloud Seeding.
- Innovative Desalination.
- Wastewater Treatment & Reclamation.
- Integrated Water Management Including Preservation, Protection.
- Economics of Domestic Water and Energy System.

3. Enhanced Oil Recovery and Heavy Oil Production and Process.

- Advanced and Integrated Database with High End Visualization and Communication Tools for Oil and Gas Information.
- Completion of Petroleum Geological Information.
- Improved Oil and Gas Exploration.
- Improved Drilling Operations.
- Optimization of Petroleum Refinery.
- Refining Capacity Expansion.
- Corrosion Assessment & Mitigation.
- Polymer Products Enhancement.
- Clean Fuel.

4. Impact of Environmental Pollution in Kuwait (Including Health Impacts).

- Ecosystem Management.
- Prevention and Control of Pollution.
- Waste Recycling and Management of Hazardous Material through Development of Strategies and Technologies.
- Desert Agriculture & Ecosystem.
- Application of Geographic Information System (GIS) for Enhanced Environmental Planning.
- Climate Change.

5. Causes, Risk Factors and Bio-Predictors of Cardiovascular Diseases.

- Prevention & Treatment of Chronic Non Communicable Diseases.

6. Diabetes and Cancer.

- Non-Communicable Diseases.
- Genetics.
- Chronic Diseases.
- Develop Plans to Tackle Cancer and Diabetes.

7. Growth & Old Age Diseases.

8. Health Services, Bioinformatics and Drug Discovery.

- Assessment of Population Health Needs and Resources.
- Enhancing Quality of Services Rendered to Patients.
- Develop a Solid Social Health Insurance System.

9. Contemporary Social and Political Issues in the Kuwaiti Society.

10. Food Quality and Security.

- Bioproduct Production (Application of Technical Doubling to Separate Vital Vegetation Materials for Diagnostic and Therapeutic Purposes).
- Monitoring of Genetically Modified Food for Safety.
- Nutrition.

11. Information and Network Security and E-Government.

- Intelligent and Secure Information Processing.
- Distributed System and E-Services.
- Improve Coordination Between Governmental Bodies.
- IT Security and Privacy.

12. Citizenship and National Unity.

13. Education Curricula and its Outputs.

14. Linguistics and Communication Disorder.

15. Islamic Finance and Banking.

Benefits Associated with Priority Research Projects

Priority research projects are packaged with special flexibility and benefits to the Project and incentives to the Researcher:

1. Project Benefits

- A. Priority is accorded in projects refereeing and presentation to implementation or funding committees.
- B. Priority in utilization of equipment and services of the General Facility Projects, Research Units and Laboratories of Kuwait University.
- C. Allowing hiring of up to (2) permanent manpower.

2. Researcher Incentives

- A. Allowing scientific missions or inviting visiting expert each year of the project. One mission may be given to attend a conference without presenting a paper, or to visit a Research Institute.
- B. If the evaluation of the Final Report is rated as distinguished (*received an excellent score*), the PI is awarded the following incentives:
 - Certificate of Merit.
 - A financial reward of KD 1000/- (PI), and KD 500/- for each Co. I.



Contact

Prof. Haidar S. Behbehani

Asst. Vice President for Research

Director, Research Analysis & Development

Research Sector

Kuwait University

P.O. Box 5969, Safat 13060 KUWAIT

Tel: (965) 2498 5290

Fax: (965) 2483 8336

**Applications for Priority Research are submitted online
through the Research Portal.**

<http://www.ovpr.kuniv.edu/research>

