



**Iranian Research Organization for Science and Technology  
(IROST)**

# **IROST Programmes and Activities**

## **2016-2017**

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in

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# IROST Brief Introduction

- Founded: 1980
- IROST is affiliate organization of the Ministry of Science, Research and Technology (MSRT)





# IROST Missions and Objectives

- ▶ Provide support for the development of High Priority Technologies at national level
- ▶ offer consultations for evaluation, commercialization and marketing of technology
- ▶ Provide the grounds for effective utilization of research results by Leading Research to Production
- ▶ Encourage and expand research activities in the area of Modern Technologies
- ▶ Carry out Strategic Studies and Research , and Analyze Vulnerabilities to the national technology development system



# IROST Missions and Objectives

- ▶ Evaluate patent applications, scientifically and professionally, and issue approval certificates for the grant of patents in the country
- ▶ Hold Research-Oriented Ph.D (Doctoral) Programs, and organize Short-Term Educational Workshops and Courses
- ▶ Introduce and present technologies developed by the researchers through the organization of Technology Markets and Exhibitions
- ▶ Execute Major Projects with the aim of technology development at national level





# IROST Missions and Objectives

- ▶ Organize and co-ordinate Intellectual Property (IP) protection efforts in the country
- ▶ Encourage and facilitate Entrepreneurship within Iranian universities through the activities of IROST's Entrepreneurship Secretariat
- ▶ Recognize the talents and contributions of researchers and innovators by holding Khwarizmi Youth and Khwarizmi International Awards as well as other scientific events
- ▶ Manage the National Scientific Data Center



# **IROST Structure & Facilities**

**Seven Department namely :**

- 1. Advanced Material & Renewable Energies**
- 2. Advanced Technologies**
- 3. Agriculture**
- 4. Biotechnology**
- 5. Chemical Technologies**
- 6. Electronics & Computer**
- 7. Mechanical Engineering**



# **IROST Structure & Facilities**

## **Seven Specialized Centres at IROST:**

- 1. Regional Desalination Center (RDC)**
- 2. National and International Centre for Halal Food Standardization**
- 3. Sustainable Health Research Centre**
- 4. Aerodynamic Research Centre**
- 5. Herbal Medicine Research Centre**
- 6. Research Center for Policy and Diplomacy**
- 7. Prof. Madjid Samii International Center of Scientific Research and Medical Technology**



# IROST Structure & Facilities

## Facilities:

- Necessary infrastructure
- High educated researchers and technicians
- Developed Research labs
- Pilot plants
- Projects oriented research setups
- Reference labs





# IROST Personnel

No.	Staffs	Number
1	<b>Academic staff</b>	<b><u>135</u></b>
	Full Professor	4
	Associate Professor	28
	Assistant Professor	63
	Lecturer	15
	Researchers M.S	25
2	<b>Technical Support Staff (M.S , B.S)</b>	<b><u>158</u></b>



# PhD and MSc Students

- ▶ IROST mission in training research based PhD and MSc. Students in:

- ◆ Chemistry
- ◆ Chemical Engineering
- ◆ Agricultural Engineering
- ◆ Biotechnology
- ◆ Mechanical Engineering
- ◆ Electronic

## • Number of PhD and MSc Students

• MSc. : 152

• PhD : 90

• Total : 242



## **The 30<sup>th</sup> Khwarizmi International Award (KIA)**

**Tehran, I. R. Iran**

**March 2017**

The KIA secretariat invite researchers, innovators and inventors, from all over the world and to participate their invaluable achievements in various fields of science and technology as indicated in bellow table:

No	Field	No	Field
1	Technology Studies	8	Medical Sciences
2	Basic Sciences	9	Chemical Technologies
3	Materials & Metallurgy	10	Agriculture & Natural Resources
4	Electronic & Computer	11	Mechanical Engineering
5	Nanotechnology	12	Aerospace
6	Civil Engineering	13	Information Technology
7	Biotechnology & Basic Medical Sciences	14	Mechatronics



## **IROST Programmes for Researchers Support**

- ☐ Feasibility study of research results of private sectors
- ☐ Commercialization of developed technologies
- ☐ Marketing of developed technologies
- ☐ Coordinating universities and research centers with industries
- ☐ Supporting students' research projects
- ☐ Organizing workshops and training programs





## **IROST Programmes for Researchers Support**

- ✓ **Managing Iranian Scientific Data Network**
- ✓ **Providing scientific information and documents to research communities**
- ✓ **Supporting the Intellectual Property of the researchers**
- ✓ **Giving Consultancy R&D and R&T institutions to enhance their infrastructure and procedures**
- ✓ **Developing entrepreneurship centers in universities.**



# International Cooperation

IROST is official focal point of the following international organizations:

- ☐ Asian and Pacific Centre for Transfer of Technology (UN-APCTT)
- ☐ Commission on Science and Technology for Sustainable Development in the South (COMSATS)
- ☐ Organization of Islamic Conference Standing Committee on Scientific and Technological Cooperation (COMSTECH)
- ☐ IORA Regional Centre for Science and Technology Transfer (IORA RCSTT)
- ☐ Centre for Science and Technology of the Non-Aligned and other Developing Countries (NAM S&T Centre)
- ☐ World Association of Industrial and Technological Research Organizations (WAITRO)



## Commercialization of Technology as the new activity of IROST

- To target the research activities toward the production of technologies and increasing organization role to create knowledge based wealth
- To Create background for scientific and technological exchanges
- To assist the development of private sector through creating infrastructure to establish knowledge based private corporation based on technical knowledge
- To earn income through selling technological know-how or absorption of investor for investing, developing and benefiting achieved technologies



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## **Strategies and Approaches of Organizational and Management Investment**

Strategy	Executive Approach
<ul style="list-style-type: none"><li>- To provide legal and executive mechanisms for commercialization of developed technologies</li></ul>	<ol style="list-style-type: none"><li>1. To propose rules and regulations to accelerate bringing developed technologies in to the market</li><li>2. To support formulation of development and expansion of commercialization of research in university and research institutes</li></ol>
<ul style="list-style-type: none"><li>- To design and carry out intellectual property rights system in technology filed</li></ul>	<ol style="list-style-type: none"><li>1. To develop data banks related to patents</li><li>2. To enrich and develop regional centers supporting intellectual property</li><li>3. To prepare needed rules and regulations for supporting intellectual property rights</li></ol>



## **Strategies and Approaches of Organizational and Management Investment**

Strategy	Executive Approach
- To support the establishment and development of technology based corporations in line with organizational mission	<ol style="list-style-type: none"><li>1. To develop qualitative and quantitative incubators</li><li>2. To cooperate extensively for realizing rules of knowledge based corporations</li><li>3. To study and identify approaches for creating and developing knowledge based corporations and providing specialized consultants</li><li>4. To create innovative unit networks</li><li>5. To establish financial institutions and or non - governmental fund for research and technology</li><li>6. To assist commercialization, market making and technology and knowledge based corporations products developed marketing</li></ol>



## Technology Commercialization Foresight and Executive Programmes

- ▶ Identification of the country's developed technological and research achievements as well as the classification and introduction of its capabilities
- ▶ Identification of interested investors
- ▶ Opening permanent and virtual techno-markets
- ▶ Identification of researchers' educational needs for documentation and commercialization of technology while planning and providing an annual time schedule
- ▶ Studying persuasive approaches and strategies for commercialization and providing related executive mechanisms

# Technology Commercialization Foresight and Executive Programmes

- ▶ Planning and implementing sub-systems for documentation under supply and demand system of technology while running the pilot in the organization
- ▶ Holding national and international workshops to train commercialization approaches and transfer of technology
- ▶ Holding national conferences in partnership with other institutions and ministries, i.e. technology suppliers and demanders
- ▶ Holding domestic and non-domestic technology tours for innovators, technology-inventors and technology demanders, especially the researchers who are linked with the Organization



# Technology Commercialization Foresight and Executive Programmes

- ▶ Holding and participating in the Organization's national and international exhibitions of research and technology achievements
- ▶ Identification of various approaches for technology marketing and market-development
- ▶ Identification of the researchers' needs and its classifications while offering strategies and proposing laws and regulations to decision makers



# **Proposed IROST Programmes in Collaboration with and Support of COMSATS for 2016 -2017**



## IROST Programmes for 2016 -2017

**□ Title:** Regional Expert Meeting on Renewable Related Energy Focusing on Microalgae Technology Using Ocean Resources Including Solar and Fuel Cell and the Meeting of Renewable Energy ITRG of COMSATS

**Date:** 22-24 August 2016

**Venue:** IROST, Tehran, I.R. Iran

**In Cooperation with and Supported by:** COMSATS



# IROST Programmes for 2016 -2017

**Title:** International Workshop on “Integration of S&T Policy Networks and S&T Diplomacy; a solution to the Regional Security Concerns”

**Date:** September 26-28, 2016

**Venue:** Tehran, I. R. Iran

**In Cooperation with and Supported by:** COMSATS and TWAS





# IROST Programmes for 2016 -2017

**Title:** International Workshop & Exhibition on  
'Sustainable Utilization of Natural Products for Human  
Health and Well Being'

- ▶ **Date:** to be announced
- ▶ **Venue:** IROST
- ▶ **In Cooperation with and Supported by:** COMSATS



**Thank you very much for your kind  
attention**

