Research to Support Vision 2025
Competitive Grants Program, 3rd Round Awards to 35 Projects, June 2014

Integrated Energy

Development of Demand Side Energy Management in Pakistan
Dr. Fahad Javed, GIFT University, Gujranwala
Assesses alternatives for energy demand management using computer simulation

An Integrated Model of Sustainable Energy Systems
Dr. Khanji Harijan, Mehran University of Engineering and Technology
Develops an operations research integrated energy sector and decision aid model

Impact of Climate Change on Electricity Consumption
Dr. Pervez Janjua, International Islamic University, Islamabad, Islamabad
Investigates potential effects of climate change on energy demand

Energy Security through Adopting Biogas System in Kyber Pakhtunkhwa
Dr. Malik Inayatullah Jan, Centre for Research and Development, Peshawar
Evaluates potential for small-scale organic energy production in rural KPK

Water Security

Developing a Real-Time Intelligent Water Allocation System
Dr. Muhammad Jehanzeb Masud Cheema, UAF, Faisalabad
Integrates remote sensing and hydrological models to inform water allocation decisions

Optimal Groundwater Management in the Indus Water Basin
Dr. Steven Helfand (Ph.D. candidate, Sanval Nasim), University of California, Riverside
Models groundwater extraction and quality under alternative policies

Efficient Irrigation Technologies for Groundwater Security in Balochistan
Dr. Junaid Alam Memon, PIDE, Islamabad
Investigates efficient irrigations systems and farmers’ willingness to adopt

Modernization of Infrastructure

Urban Transportation and Access to Economic Opportunity: Lahore Metrobus
Dr. Hadia Majid, LUMS, Lahore
Evaluates effects of Metrobus on labor mobility and earnings

Infrastructure Development and Economic Growth
Dr. Samina Sabir, University of Azad Jammu and Kashmir, Muzaffarabad
Assesses impacts of public physical and social investments on aggregate growth

Efficiency of Alternative Public Investments
Dr. Qazi Masood Ahmed, Institute of Business Administration, Karachi
Assesses impacts of public physical and social investments on growth in 8 sectors

Pakistan KLEMS Database and Productivity Measurement at the Industry Level
Dr. Abid Aman Burki, LUMS, Lahore
Creates internationally-consistent growth and productivity database for 14 industries
Indigenous Resource Mobilization

Regime Switches in Pakistan’s Fiscal Policies
Dr. Iftikhar Ahmad, PIDE, Islamabad
Assesses effects of government spending/taxes on growth and trade balance

Implementation of UIPT Reforms in Punjab
Daniyal Aziz, GINI, Islamabad
Examines possibilities and impediments to updating and reform of UIPT

Improved Estimates of Changes in Stocks/Inventories for National Accounts
Zafar Ul Hassan, Planning Commission of Pakistan, Islamabad
Develops accurate and consistent estimates of changes in stocks

Value Addition in Commodity Producing Sectors

Strategies to Control Diseases and Increase Productivity of Livestock Sector
Dr. Muhammad Ashfaq, UAF, Faisalabad
Assesses impediments to improved disease control and livestock quality

Food Utilization among Poor Households in Peri-Urban Areas of Punjab
Dr. Muhammad Khalid Bashir, UAF, Faisalabad
Investigates consumption among peri-urban households with focus on food safety

Effective of Biofertilizer on Productivity of Chickpeas in Cholistan-Bahawalpur
Dr. Maqshoof Ahmad, Islamia University, Bahawalpur
Demonstration trials and economic analysis of biofertilizer to raise production

Medicinal and Aromatic Plants to Promote Economic Development in Swat Valley
Dr. Hassan Sher, University of Swat
Demonstrations and economic analysis of MAP cultivation to raise incomes and preserve species

Local Marketing Channels and Farm Profitability
Dr. Bushra Yasmin, Fatima Jinah Women University, Rawalpindi
Investigates marketing alternatives to raise farm incomes

Export Promotion and Private Sector Led Growth

A Value Chain Analysis of the Leather Industry
Dr. Zahoor Ul Haq, Abdul Wali Khan University, Mardan
Examines intra- and inter-firm determinants of value-added and export performance

Channelizing Pakistan-Afghanistan Informal Trade into Formal Channels
Dr. Adil Khan Miankhel, Embassy of Pakistan, Kazakhstan
Examines informal and formal trade and possible preferential trade arrangement

Social Compliance Audits in the Textile and Garments Sector
Muhammad Faraz, Bahria University, Karachi
Investigates labor practices that affect social compliance export requirements

Developing a Vibrant Financial System and Bond Market
Dr. Syed Kumail Abbas Rizvi, Synergistic Financial Advisors, Lahore
Investigates market discipline on banking sector and potential for bond market development

Dynamic Behavior of Corporate Investment in Pakistan
Dr. Adnan Haider, Institute of Business Administration, Karachi
Investigates micro-level/balance sheet determinants of KSE-Listed firm investment

Effects of Corporate Governance on Earnings Management Practices
Bilal Hafeez, National University of Computer and Emerging Sciences, Islamabad
Investigates effects of corporate governance and audit regulation on firm performance

High-Level Human Resource Management to Enhance Firm Performance
Dr. Mansoor Ahmadand Dr. Muhammad Majid Khan, COMSATS, Islamabad
Investigates effects of large-firm HR management on absenteeism and other indicators

Dr. Naveed Ur Rehman, Iqra University, Karachi
Investigates effects of medium-firm HR management on performance

Livelihood Diversification in the Rural Economy in Punjab and Sindh
Dr. Faisal Jamil, NUST, Islamabad
Investigates farm, non-farm and remittance income strategies of rural households

Social Capital

Competition between Private and Public Schools in Rural Pakistan
Dr. Muhammad Jehangir Khan, PIDE, Islamabad
Assesses alternatives for improving school quality and effects on attendance

Child Labour in the Urban Informal Sector
Dr. Ambreen Fatima, AERC, Karachi
Assesses supply and demand determinants of child labour

Health Benefits of Urban Open Spaces for Adolescent Girls
Dr. Nomana Anjum, Allama Iqbal Open University, Islamabad
Assesses effects of open space access and outdoor recreation on health of adolescent girls

Financial Literacy Challenge and Empowerment
Dr. Imran Ali, COMSATS, Lahore
Investigates strategies for raising family financial management of low-income women

Socio-Economic and Health Status of Female Cotton Pickers
Dr. Muhammad Abubakkar, Sub Campus UAF, Vehari
Investigates health and economic status of women cotton pickers

Employment in Textile Sectors
Dr. Muhammad Khan, COMSATS, Lahore
Evaluates workplace safety and health status of women workers in cotton-textile industries

Precarious Lives, Disrupted Bodies: Social Repair after Disaster in Northern Pakistan
Omer Aijazi (Ph.D. candidate), University of British Columbia, Vancouver
Examines social repair after natural disasters and recovery strategies