## On-going Projects

- Sustainable bio energy development in emerging economies under global changes: current practice, perception, response and management
- Identification and up-scaling of climate-smart agriculture (CSA) practices for sustainable food security in high altitude farming regions of Himalaya
- Improving assessment of Drought and its Impacts on Food and Water Resources in South Asia
- Mitigation strategies for enhanced Soybean production under changing climate scenarios in the Pothwar and Khyber Pakhtunkhwa.
- Assessment of Carbon Emissions and Mitigation Potential in Brick Kiln Industry
- Sustainable food systems under climate change in South Asia.
- Elucidation of Larvicidal Effects of Metallic Nano-Particles against Vectors causing Malaria and Dengue Fever.
- Smart Water Metering and Pricing project: A Step towards Sustainable Management.

[www.ccrd.edu.pk](http://www.ccrd.edu.pk)

## Faculty Members

<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Athar Hussain</td>
<td>Head CCRD</td>
</tr>
<tr>
<td>Dr. Toqeer Ahmad</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Saeed A. Asad</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Anjum Rasheed</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Mohsin Raza</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Muhammad Abid</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Umair Bin Nisar</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Farrukh Raza Amin</td>
<td>Assistant Professor</td>
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<tr>
<td>Mr. Hassaan Sipra</td>
<td>Scientific Officer</td>
</tr>
<tr>
<td>Mr. Muhammad Zahir</td>
<td>Research Associate</td>
</tr>
<tr>
<td>Ms. Rabbia Murtaza</td>
<td>Research Associate</td>
</tr>
</tbody>
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## Research

- Over 60 research articles in impact factor journals
- 09 Book chapters
- 07 News articles in different newspapers of Pakistan

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Centre for Climate Research and Development (CCRD):
Centre for Climate Research and Development (CCRD) was launched on January 2014 with the holding of an international conference on “Asian Monsoon and Climate Change” in association with the Potsdam Institute for Climate Impact Research (PIK), International Center for Climate and Environmental Sciences (ICCES) and Institute of Atmospheric Physics (IAP) of China. It became functional in March 2014.

Mission Statement:
- Develop Research Capacity
- Establish Knowledge Networks
- Build Awareness and advocacy on Issues of Climate change
- Promote the Teaching of Climate Sciences

Vision:
CCRD will emerge as a vibrant research entity in climate research with board mix of indigenous Knowledge, skills and talent geared towards responding to the challenges confronting Pakistan form global climate change.

Focus Areas:
Key areas for CCRD’s research efforts include:
- Hydrology
- Agriculture
- Food
- Health
- Energy
- Extreme Weather
- Air Pollution
- Low Carbon Analysis
- Climate Change Diagnosis
- Climate Policy Issues

Collaborative Partners:
The partners of CCRD are:
- Potsdam Institute for Climate Impact Research (PIK)
- Technical University of Braunschweig (TUBS)
- Karlsruhe Institute of Technology (KIT)
- German Embassy in Pakistan
- Energy Research Centre of the Netherlands (ECN)
- Chinese Academy of Sciences
- Imperial College London,
- Center for Clear Air Policy (CCAP)
- Washington DC Earth Institute
- New York University of Texas Austin
- International Institute for Sustainable Development (IISD)
- National Institute of Development Administration (NIDA)
- European Union Delegation in Pakistan

Completed Projects:
- Pakistan Low-Carbon Scenario Analysis (LCS).
- Synthesis and Modification of Different Adsorbent for Environmental Remediation.
- Vulnerability of Pakistan’s Water Resources to the Impacts of Climate Change: Identification of Gaps and Recommendations.
- Bacteriological Water Quality Assessment of Different Institutions of Abbottabad City in KPK, Pakistan.
- Sedimentation of Large Dams: A Case Study of Indus at Tarbela Dam.
- 50 Years of Sustainable Urban Development of Islamabad.

Multiple climate change impacts on agriculture and food production in Pakistan (Abid et al., 2017)