**BRACU Applied Research Programs in Ergonomics**

* Research Topics
  + Workability index development
    - Background research
    - Measurement and analysis tool development.
      * Video methods, Observational methods
    - Pilot studies using BRAC students and local industry
    - Expert evaluation, Broader scale Implementation
  + Occupational safety and health program development
    - Program scope articulation
      * Contexts, Tools, Participants, Processes, Outcome Evaluation
    - Background research
    - Program design, Pilot studies and evaluation
    - Program implementation in selected workplaces
    - Evaluation, Plans for broader implementation
  + E Learning Development for BRACU
    - Research team formation, background research
    - Technology review and adoption
    - Process development, Pilot studies and evaluation
    - Training program development and implementation
    - Implementation in selected BRACU programs
  + Macro Ergonomics in Bangladesh
    - Socio technical system articulation and background research
    - Identification of major sectors: Garments, Agriculture, Construction, Fishing, Manufacturing etc.
    - Systems analysis of sector features and functions, Model development
    - Failure Modes and Effects Analysis using selected software
    - Pilot studies in Bangladesh organizations
    - Establishment of Macro Ergonomics program design and pilot implementation
* Research Methods
  + Literature research, Exploration of large scale research methods
  + Factor analysis
  + Investigation and design tool development
    - Expert reviews, Sample survey methods, Focus groups
  + Modeling and simulation
* Funding
  + - Large multinational corporations
      * Walton, Samsung, Microsoft, Nokia, Toyota, Intel, Coca Cola, Sony, IBM, GE, Nike, Citigroup, Atlas Copco
    - Funding agencies
      * Giz <https://www.giz.de/en/worldwide/351.html>
      * FES <https://www.fes-connect.org/spotlight/fes-opens-academy-of-work-in-bangladesh/>
      * Bangladesh Institute of Labor Studies, Academy of Work, Bangladesh