Contents

Accounting & Finance .............................................. 04
Economics ........................................................ 08
Management ......................................................... 12
Marketing & International Business ....................... 18
Architecture ......................................................... 23
Civil & Environmental Engineering ......................... 26
Electrical & Computer Engineering ......................... 29
Mathematics & Physics .......................................... 37
English & Modern Languages ................................ 42
Political Science & Sociology ................................ 47
Law ................................................................. 51
History & Philosophy .......................................... 54
Biochemistry & Microbiology ................................ 56
Environmental Science & Management .................. 61
Pharmaceutical Sciences .................................... 64
Public Health .................................................... 69
NSU Global Health & Climate Research Institute ...... 74
NSU Genome Research Institute .......................... 76
South Asian Institute of Policy & Governance .......... 78
Confucius Institute .............................................. 78
NSU has a renewed emphasis on research. We are exploring all avenues, and making a concerted effort to accelerate the pace of research. Since becoming the Vice Chancellor of North South University (NSU) in 2016, I have put an increased emphasis on research-related activities. This includes our global outreach to universities and research institutes for possible academic match-making by research interest. One of the ways we have demonstrated our commitment to research is by allocating more research funds to our faculty members. We give priority to those research grant applications that include experienced and senior international researchers to collaborate with our staff to collect, analyze and write up data for publication in international top ranking journals in order to identify problems, trends and solutions for local and global problems. As such, the current volume includes specific information about NSU’s faculty research interests by department and faculty member. We have made it easy for potential interested researchers anywhere to find and contact our researchers for the possibility of joint collaboration. We welcome the opportunity to support important research in Bangladesh and the region and we look forward to hearing from you.

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<td>4. Value Co-creation in Social Media Environment</td>
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<td>5. Digital Marketing: The Role of Social Media in Building Digital Brand Communities</td>
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<td>6. The Concepts and Dynamics of Nation Branding : Developing a Practical Framework for Bangladesh</td>
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<td>2. Sustainability</td>
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<td></td>
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<td>2. Product Placement Strategy and Ethical Issues</td>
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<td>3. Corporate Branding by Using Social Media</td>
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<td></td>
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<td>2. Consumer Behavior</td>
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<td>3. Digital Marketing</td>
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<td></td>
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<td>3. Social Marketing</td>
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</tr>
<tr>
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<td>-------------------------------------------------</td>
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<th>Research Areas</th>
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<tr>
<td>Dr. Habibur Rahman Kamal</td>
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<td>1. Development of Steel Building Equipment 2. Development of Translucent Concrete with Indigenous Materials 3. Development of Light Reflecting Concrete</td>
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| Dr. Shazzad Hosain            | Professor               | 1. Mobile, Wireless, and Web Applications Development  
                              | 2. Artificial Intelligence & Robotics  
                              | 3. Database & Information Systems  
                              | 4. Software Engineering         |
| Dr. Hasan Uz Zaman            | Professor               | 1. VLSI Design and Fabrication  
                              | 2. Embedded Systems and Internet of Things (IoT)  
                              | 3. Semiconductor Devices and Technology  
                              | 4. Power Systems and Renewable Energy |
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                              | 2. Semiconductor Device and Technology |
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                              | 3. Synthesis and Assembly of Functional Nanostructures  
                              | 4. Solar Photovoltaics |
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                              | 2. Robotics and Automation  
                              | 3. Women in STEM |
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                              | 3. Distributed Computing |
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                              | 2. Data Networking & Information Security  
                              | 3. Mobile, Wireless, and Web Applications Development |
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<tr>
<th>Name</th>
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<th>Research Areas</th>
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</table>
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6. Compact, Smart, and Multi Band Antennas  
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3. Broadband Access & Communication Technologies|
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35
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<tr>
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</tbody>
</table>
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3. Dynamical System Ergodic Theory |
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3. Systems and Control Theory  
4. Iterative Methods for Large Sparse Matrix Equations (Silvester, Lyapunov, Riccati, etc.)  
5. Scientific Computing  
6. Algorithms and Software  
7. Structure Preserving Model Reduction of Large-Scale Second Order Dynamical Systems Using the PDEG Method and Application to Some Real Problems |
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3. Blood Flow Simulation in Artery Containing a Growing Atherosclerotic Plaque |
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4. Chaotic Mixing in Complex Fluid System  
5. Information Theory  
6. Collective Behavior of Biological Systems |
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</table>
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</thead>
</table>
| Md. Zahangir Hossain | Senior Lecturer | 1. Codes & Designs  
2. Computational Fluid Dynamics (CFD)  
3. Nano fluids  
4. Fluid Dynamics of the Atmosphere & Ocean  
5. Newtonian & Non-Newtonian Flows  
6. Laminar & Turbulent Flows  
7. Natural & Mixed Convection Flows | zahangir.hossain@northsouth.edu |
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2. SRT & MRT Lattice Boltzmann Method (LBM) for Newtonian & Non-Newtonian Flow  
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4. Flow through Porous Media  
5. Hydrodynamic Stability  
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3. China as a Global Power | abdur.khan@northsouth.edu                                                  |
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</table>
| Nur Newaz Khan     | Lecturer | 1. Anthropology of Health & Illness  
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3. Vibrational IR spectra simulation  
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2. Development of Flood Tolerant Rice Varieties  
3. Transmission and Pathogenesis of Vibrio Cholerae in Environmental and Pathological Samples  
4. Isolation and Identification of Food Borne Pathogens & their Antibiotic Resistance Pattern |

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<tr>
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<th>Research Interests</th>
<th>Email</th>
</tr>
</thead>
</table>
| Ahmed Ishtiaque          | Lecturer      | 1. Immunology  
2. Oncology  
3. Bioinformatics                     | ahmed.ishtiaque@northsouth.edu       |
| Mahjabeen Hossain        | Lecturer      | 1. Oral Microbial Disease  
2. Oral Precancerous and Cancerous Tumor and Lesions  
3. Salivary Proteomics  
4. Type 2 Diabetic Mellitus and Bone Disorders | mahjabeen.hossain@northsouth.edu    |
| Fatimah Az Zahra         | Lecturer      | 1. T-lymphocytes  
2. Natural killer (NK) cells  
3. Cancer antigens or biomarkers  
4. Epitope-focused vaccines  
5. Antibodies              | fatimah.zahra@northsouth.edu        |
| Nishat Shayala Islam     | Lecturer      | 1. Molecular Biology and Genetics                                                  | nishat.islam@northsouth.edu         |
| Md. Habibur Rahaman      | Lecturer      | 1. Protein Biochemistry  
2. Structural Biology  
3. Chemical Biology           | habibur.rahaman@northsouth.edu      |
| Preyanka Nath            | Lecturer      | 1. Cancer Biology  
2. Bioinformatics  
3. Genetics                       | preyanka.nath@northsouth.edu        |
| Dr. Md. Jakariya | Professor | 1. Human Geography  
2. Environmental Risk Assessment  
3. Climate Change Adaptation  
4. Migration and GIS |
|-----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dr. Hassan Mahmud | Professor | 1. Solid and Hazardous Waste Management  
2. Waste to Resources/Energy  
3. Water/Wastewater/Effluent Treatment  
4. Environmental Health  
5. Development and Utilization of Polymeric Membrane for Environmental Applications |
| Dr. Biswas Karabi Farhana | Professor | 1. Chemistry of Atmospheric Pollutions in South Asian Mega-cities  
2. Source, Chemistry and Impacts of Winter Fog in the Indo-Gangetic Plains  
3. Biogeochemistry of Atmospheric Aerosol and Precipitation in Marine and Terrestrial Atmosphere  
4. Atmospheric Cycling of Halogen, Iron and Carbon |
| Dr. Nazmul Ahsan Khan | Professor | 1. Eco-Health  
2. Climate Change and its Impact on Health  
3. Environnental Toxicity  
4. Polluants, Toxicity and Health Impact  
5. Bio-remediation of Heavy Metals  
6. Carbon Sequestration in the Soil  
8. Sustainable Agriculture Related to Climate Change in Bangladesh |
| Dr. Kamrun Nahar | Associate Professor | 1. Renewable Energy-Biofuel  
2. Climate Change: Adaptation and Mitigation Potential  
3. Crop Physiology and Ecology  
4. Soil Chemistry  
5. Soil-Water-Plant Relationships  
6. Crop Production: In Drought and Salinity |

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- nahar.kamrun@northsouth.edu
<table>
<thead>
<tr>
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<th>Research Areas</th>
<th>Email</th>
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</thead>
</table>
| Dr. Saiful Momen      | Assistant Professor    | 1. Globalization and Urban Policy  
                      2. Urban Environmental Management  
                      3. Urban and Regional Planning  
                      4. Development Studies  
                      5. GIS and Statistical Analysis | saiful.momen@northsouth.edu    |
| Dr. Mohammad Sujauddin| Assistant Professor    | 1. Industrial Ecology  
                      2. Waste Management  
                      3. Natural Resources Management  
                      4. Forest Management  
                      5. Visual Pollution  
                      6. Environmental Policy | mohammad.sujauddin@northsouth.edu |
| Dr. Mohammad Moshiur Rahman | Assistant Professor & Chair | 1. Groundwater Arsenic Geochemistry  
                      2. Fate and Transport of Groundwater Contaminants  
                      3. Reactive Transport Modeling of Heavy Metals in Groundwater  
                      4. Geographic Information System and Environmental Modeling  
                      5. Water and Soil Quality Analysis | mohammad.rahman@northsouth.edu |
| Tahmid Huq Easher     | Senior Lecturer        | 1. Implementation of IWRM in Small-scale Watershed  
                      2. Capacity Building Towards Climate Resilient Community  
                      3. Climate Applications (Adaptation, Coping, and Mitigation)  
                      4. Water Governance | tahmid.huq@northsouth.edu     |
| Ahnaf Ahmed           | Lecturer               | 1. Mathematical Programming  
                      2. Systems Analysis,  
                      3. Optimization  
                      4. Decision Support Systems  
                      5. Operations Research | ahnaf.ahmed@northsouth.edu    |
| Raisa Bashar          | Lecturer               | 1. Environmental Economics  
                      2. Economic Valuation of Ecosystem Services  
                      3. Climate Change and Adaptation  
                      4. Alternate Energy Resources | raisa.bashar@northsouth.edu    |
Pharmaceutical Sciences
| Dr. Hasan Mahmud Reza | Professor | Molecular Biology and Biochemistry  
| Cell Culture  
| Tissue-engineering and Transplantation  
| Epithelial Culture for Human Transplantation  
| Embryology  
| Histology |
| Dr. G M. Sayedur Rahman | Associate Professor & Chair | In Silico Drug design:  
| Virtual screening  
| De Novo Drug Design  
| Pharmacophore Drug Design  
| Molecular Docking  
| Molecular Dynamics  
| Molecular Mechanics  
| Substrate-protein Interaction  
| Protein-protein Interaction  
| Homology Modeling  
| AB Initio Protein Modeling  
| Ramachandran Plot  
| Protein/ small Drug Like Molecule Energy Minimization  
| Substrate Binding Pocket Identification  
| Substrate Interaction in Receptor Pocket  
| Hydrogen Bonding  
| Hydrophobic Interaction  
| Other Types  
| Pharmacophore Design  
| Database Search for new Drug Like Molecule  
| Drug re-purposing |
| Dr. Preeti Jain | Associate Professor | Pharmaceutical Microbiology  
| Biotechnology |
| Dr. Md. Ashraful Alam | Associate Professor | CCl4 Induced Cirrhotic Liver in Rats  
| 2K1C Goldblatt Hypertensive Rat Model  
| ISO Induced Cardiac Remodeling in Rats  
| High Fat Diet Induced Obesity in Rats and Natural Compounds |

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<thead>
<tr>
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<th>Position</th>
<th>Research Interests</th>
<th>Email</th>
</tr>
</thead>
</table>
| Dr. Mohammad Hossain Shariare | 1. Biodegradable and Biocompatible Nanoparticles of Phytoconstituents  
2. Nano Drug Delivery System (particularly in poorly soluble drugs and targeted drug delivery systems)  
3. Inhalation Drug Delivery System  
4. Sustain and Controlled Release Drug Delivery System  
5. Fundamentals of Material Science (particularly morphology, structure and mechanical properties of drug crystals) | mohammad.shahriare@northsouth.edu          |
| Dr. Asim Kumar Bepari       | 1. Brain disorders  
2. Neuroscience  
3. In-silico Drug Discovery  
4. Epidemiology | asim.bepari@northsouth.edu                                                                |
| Dr. MN Islam                | 1. Liver Toxicity in Rodent model  
2. Inflammation model and molecular basis of inflammation signaling  
3. Neuropharmacology focusing on Parkinsonism disease in rat model | mn.islam@northsouth.edu                    |
| Dr. Md. Mahbubur Rahman     | 1. Neuropharmacology (focusing inflammation at brain interface) | rahman.mahbubur@northsouth.edu                                                             |
| Dr. Murad Hossain           | 1. Behavioral Neuropharmacology | murad.hossain@northsouth.edu                                                               |
| Dr. Tahmina Foyez           | 1. Neuroscience | tahmina.foyez@northsouth.edu                                                               |
| Dr. Khondker Ayesha Akter   | 1. Cancer Biology  
2. Molecular Biology  
3. Human Cancer Genomics | khondker.akter@northsouth.edu                                                             |
| Dr. Nusrat Subhan           | 1. Identifying and Quantifying of Polyphenols (specially, flavonoids)  
2. Quantify Phenolic Compounds in Natural Products | nusrat.subhan@northsouth.edu                                                              |
Dr. Manik Chandra Shill
1. Pharmacology
2. Clinical Pharmacy
3. Public Health
manik.shill@northsouth.edu

Dr. Ferdous Khani
1. Molecular Mechanism of Metabolic Syndrome and its Possible Mechanism of Improvement by Dietary Supplements and Phytochemicals
khan.ferdous@northsouth.edu

Dr. Md. Ashrafur Rahman
1. Novel Pharmacological and Behavioral Interventions for the Treatment of Alzheimer Disease and Dementia
2. The Involvement of Muscarinic Acetylcholine Receptors (mAChRs) and Nicotinic Acetyl Choline Receptors (nAChRs) during Discrimination Task by Using Hippocampus and Non-hippocampus Dependent Learning
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Dr. Shazid Md. Sharker
1. Theranostic Nanomedicine
2. Low-Dimensional (1D, 2D) Nanomaterials
3. On-demand Drug delivery system
4. Photothermal heat & Cancer Therapy
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1. Neuropsychiatric & Metabolic Disorders
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3. Bioequivalence Study
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2. Drug Design & Discovery
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Tahmina Yasmin
1. Pharmacological Evaluation of Different Plant Extracts for Different Biological Effect (Analgesic, Anti-inflammatory, and Antimicrobial, Cytotoxic etc.)
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Md. Adit Muktadir Pavel
1. Pharmacoepidemiology
2. Patients Non-adherence
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<thead>
<tr>
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<th>Research Areas</th>
<th>Email</th>
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<tbody>
<tr>
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<td>Nusrat Hossain</td>
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<td>1. Developing Herbal Formulations 2. Herbal Supplements of Carica papaya Leaves for Dengue Patients</td>
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</tbody>
</table>
Public Health
1. Epidemiological studies of Infectious, Tropical and emerging diseases
2. Action Research on Non Communicable Diseases of high importance (Cancer, Heart diseases, DM and Kidney diseases)
4. Descriptive Epidemiology of Obesity and Malnutrition
5. Application of state-of-the-art technologies to address and combat Multi-drug Resistant (MDR) and Bacterial species
6. Study for identification of biomarkers for Hereditary, Cancers and Kidney diseases
7. Genomic characterization of high-priority organisms (such as Dengue and Chikungunya) involved in seasonal outbreaks in Bangladesh

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<tr>
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</tr>
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<tbody>
<tr>
<td>Dr. Mohammad Delwer Hossain Hawlader, Associate Professor</td>
<td><a href="mailto:mohammad.hawlader@northsouth.edu">mohammad.hawlader@northsouth.edu</a></td>
<td>1. Childhood Nutritional Deficiency 2. Chronic and Infectious Diseases 3. Non-communicable Diseases (NCD) 4. Maternal and Child Health 5. Climate Change and its Effect on Infectious diseases and Socioeconomic Perspective in Bangladesh 6. Telemedicine and m-Health</td>
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<td>Dr. Ariful Bari Chowdhury, Senior Lecturer</td>
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<td>1. Psychiatric Morbidity of Chikungunya and Infectious Disease 2. Non-Communicable Diseases (Diabetes) and its Associated Complications (Retinopathy) 3. Telemedicine and m-Health (E-health)</td>
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<tr>
<td>Dr. Mohammad Hayatun Nabi, Senior Lecturer</td>
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<td>1. Occupational Health Safety Issues on Productivity 2. Health Service Inequalities under Compliance and Noncompliance Settings</td>
</tr>
<tr>
<td>Lecturer</td>
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<td>Courses</td>
</tr>
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</table>
| Yamin Tauseef                   | yamin.jahangir@northsouth.edu             | 1. Marginalized Community  
2. Refugee Reproductive Health  
3. Slum Community Setting  
4. Qualitative Research Methodology  
5. Equitable Access to Health Care  
6. South-South Technical Assistance  
7. Psychosocial Environment of Patient  
8. Health-seeking Behavior |
| Samiul Hossain                   | samiul.hossain@northsouth.edu             | 1. Developmental Psychopathology  
2. Adolescents Psychopathology and Mental Health Issues  
3. Cognitive Emotion Regulation  
4. Emotion Regulation  
5. Early Intervention and Prevention of Psychological Difficulties  
6. Malnutrition and its Association with Psychological Factors  
7. Working Alliances and Therapeutic Outcomes  
8. Behavioral Aspects on Health |
| Sadia Chowdhury                  | sadi.chowdhury@northsouth.edu             | 1. Women Rights and Gender Equality  
2. Gender and Health Care in Bangladesh  
3. Violence against Women and Girls  
4. Sexual and Reproductive Health Rights  
5. Adolescent Health and Emotional Well-being  
6. Urban Livelihood and Sanitation  
7. Indigenous Culture and Society  
8. Mental Health |
| Segufta Dilshad                  | segufta.dilshad@northsouth.edu            | 1. Health Literacy  
2. Non-Communicable Disease and Lifestyle Modifications  
3. Healthcare Service Quality  
4. Patient Rights and Empowerment  
5. Health Promotion |
| Shakina Sultana | Lecturer | 1. Infectious Diseases, Especially in Children Under 5-years of Age in Bangladesh  
2. Maternal and Child Health (early childhood development and child discipline)  
3. Non-communicable Diseases (NCDs), Especially Oral Cancer and its Premalignant Lesions  
4. Environmental and Occupational Health in Bangladesh |
|----------------|---------|------------------------------------------------------------------|
| Prasenjit Mondal | Lecturer | 1. Gut microbiota and its impact on human health, especially nutrition, immune system, and disease progression.  
3. Combination of genomic data and machine learning techniques to develop better predictors/models for human health and diseases.  
4. Clinical and Public health nutrition with special focus on micronutrient metabolism  
5. Infectious diseases with a special focus on Neglected Tropical Diseases (NTD)  
6. Clinical Trials |
|                |         | shakina.sultana@northsouth.edu prasenjit.mondal@northsouth.edu |
1. The Sustainable Development Goals (SDGs)

2. Maternal, Newborn and Child Health (MNCH)

3. Sexual Reproductive Health and Nutrition

4. Non-Communicable Diseases (NCD)

5. Emerging & Re-emerging Diseases

6. Health System Strengthening

7. Training & Capacity Building for Young Leadership

8. Evidence Generation

Current Projects

1. Reducing Dietary Related Risks Associated with Non-Communicable Disease in Bangladesh (RDRNCD)


Funded by

International Development Research Center (IDRC), Canada

The National Aeronautics and Space Administration (NASA)
1. Prevalence of Multidrug-resistant Pathogen in Hospital Care Settings
2. Effect of Chlorination on Gut Microbiota
3. Comparative Genomics Analysis of Vibrio spp. Isolated from Different Environmental Sources
4. Genomic Characterization of Virulence Factors of Fish Pathogens Using Next Generation Sequencing Technology
5. Comparative Genomics and Evolutionary Biology Analysis of Escherichia coli Isolated from Different Environmental and Clinical Sources
6. Whole Genome Sequencing and Analysis of Virulence Properties of Vibrio cholerae Isolated from Different Environmental Sources
7. Genomic Characterization of Plant Growth Promoting Bacterial Endophytes
8. Genotypic and Phenotypic Characterisation of Bacterial Pathogens (Acinetorhacter, Pseudomonas, Serratia, E. coli, Klebsiella spp.) Isolated from Hospital Care Settings
9. Biobanking and Genetic Analysis (Identifying Potential Genetic and Epigenetic Markers for Intervention of Different Maternal, Neonatal and Child Health-related Adverse Conditions)
10. CARE Bangladesh: Cholera Antibiotic Resistance in Bangladesh: big data mining and machine learning to improve diagnostics and treatment selection

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Confucius Institute
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<tr>
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<th>Email</th>
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</thead>
</table>
| Sk. Tawfique M. Haque, PhD  | Professor & Director                       | 1. South Asian Governance Theories  
2. Local Governance  
3. Globalization & International Trade Regimes  
4. Administrative Culture & Behavior  
5. Civil Society  
6. Aid Agencies Model of Governance | tawfique.haque@northsouth.edu |
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2. Governance  
3. Local Government  
4. Public Administration  
5. Corruption and Integrity | saminuzzaman@gmail.com       |
| Dr. M Mahfuzul Haque        | Adjunct Faculty                            | 1. Citizen’s Trust  
2. Public Administration  
3. Youth Mobilization | mahfuzul354@gmail.com       |
| Dr. Zhou Weiwei             | Chinese Director                           | 1. Cultural Studies  
2. Chinese Language and Cultural Heritage  
3. Cultural Tourism Research | zhou.weiwei@northsouth.edu  |