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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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Marketing & International Business
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2. Product Placement Strategy and Ethical Issues  
3. Corporate Branding by Using Social Media                                                                                           | riasat.amir@northsouth.edu    |
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2. Consumer Behavior  
3. Digital Marketing                                                                                                                         | ehfaz.nowman@northsouth.edu   |
| Fairuze Chowdhury           | Lecturer | 1. Consumer Behavior  
2. Social Business  
3. Social Marketing                                                                                                                           | fairuze.chowdhury@northsouth.edu |
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<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Areas in Business</th>
<th>Email</th>
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</table>
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2. International Business  
3. Big Data and Analytics | ehnaaz.kamal@northsouth.edu |
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3. Quantitative Marketing | tashfeen.saeed@northsouth.edu |
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School of Engineering & Physical Sciences

Architecture
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<tr>
<th>Name</th>
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<th>Topics</th>
</tr>
</thead>
</table>
| Haroon Ur Rashid    | Professor              | haroon.rashid@northsouth.edu  | 1. Climate & Design  
2. Climatic Evaluation of Vernacular/Traditional Architecture  
3. Urban Planning                                                   |
| Dr. Zaki Islam      | Professor              | zaki.islam@northsouth.edu      | 1. Child Environment  
2. Urban Issues                                                     |
| Dr. Mujtaba Ahsan   | Associate Professor    | mujtaba.ahsan@northsouth.edu   | 1. Green Building  
2. Sustainable Architecture  
3. Architectural History and Conservation  
4. Architectural Aesthetics  
5. Energy Audit and Simulation in Architecture                         |
| Shaila Joarder      | Associate Professor & Chair | shaila.joarder@northsouth.edu | 1. Energy Efficient Buildings  
2. Life Cycle Assessment  
3. Urban Sustainability  
4. Environmental Impact Assessment  
5. Urban Resilience and Land Use Planning  
6. Environmental Sustainability                                      |
| Dr. Saiful Islam    | Associate Professor    | saif.islam@northsouth.edu      | 1. Thermal Comfort  
2. Natural Ventilation  
3. Daylight  
4. Energy Simulation                                                  |
| Shahriar Iqbal Raj  | Assistant Professor    | shahriar.raj@northsouth.edu   | 1. Green Building  
2. Sustainable Architecture  
3. Fire Safety  
4. Occupational Health & Safety  
5. Adaptive Re-use of Heritage Buildings                                |
| Ismat Hossain       | Senior Lecturer        | ismat.hossain@northsouth.edu   | 1. Sustainability & Confort Using Local Building Knowledge  
2. Urbanism & Urban Ecology  
3. Green Roof & Urban Heat Impact  
4. Transitional Ecological Environment  
5. Urban Intervention & Public Realm                                    |
| Sujaul Islam        | Senior Lecturer        | sujal.khan@northsouth.edu      | 1. Urbanisation & Transport Planning  
2. Sustainable Cities  
3. Climate Change                                                      |
<table>
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<tr>
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<th>Research Areas</th>
<th>Email</th>
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</table>
| Maruf Hossain     | Senior Lecturer| 1. Urbanization  
2. Human Settlement  
3. Resilience & Housing Pattern  
4. Urban Climate  
5. Thermal Simulation | maruf.hossain@northsouth.edu |
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2. Structural Conservation  
3. Form within a Form | aida.hassan@northsouth.edu |
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2. Urban Design  
3. Vernacular Community Architecture | alia.shahed@northsouth.edu |
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2. Natural Hazard study and Disaster Management  
3. Modeling water, environment and climates System  
4. Water Resources: Flood, urban environment, land use and drainage;  
5. Coastal zone management: salinity intrusion & source for alternate water supply  
6. Green Building, fire safety & environmental management in the industrial premises |
|---|---|---|
| Dr. Javed Bari | Professor & Dean | 1. Highway Materials Characterization  
2. Traffic and Crash Data Analysis  
3. Pavement and Geotechnical Design and Analysis  
4. Civil and Construction Engineering Materials  
5. Transportation Economics  
6. Recycling of Highway Materials |
| Dr. Mohammad Nazmul Islam | Professor & Chair | 1. Computational Mechanics  
2. Theory of Inverse Problems and Regularization  
| Dr. Habibur Rahman Kamal | Professor | 1. Development of Steel Building Equipment  
2. Development of Translucent Concrete with Indigenous Materials  
3. Development of Light Reflecting Concrete |
| Dr. Md. Shoaib Chowdhury | Professor | 1. Sustainable Transportation Development  
2. Application of Advanced Technologies in Transportation |
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**Areas of Interest**

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<tr>
<th>Nazmun Nahar</th>
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<td>2. Urban Drainage</td>
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<th>Shama E. Haque</th>
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<tr>
<td>1. Geochemistry</td>
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<td>2. Environmental effects of urbanization</td>
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<td>3. Water quality</td>
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<td>4. Sustainability of groundwater</td>
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<td>5. Water resource management</td>
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<th>Minhaz Mohammad Shahriar</th>
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<tr>
<td>3. Soil-structure interaction</td>
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<tr>
<td>4. Pile Foundation</td>
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<tr>
<td>7. Soil mechanics and computational mechanics</td>
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</tr>
</tbody>
</table>
Electrical & Computer Engineering
| Dr. M. Rokonuzzaman | Professor | 1. Artificial Intelligence & Robotics  
2. Technology Transfer and Policy  
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|--------------------|----------|----------------------------------------------------------------------------------|
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2. Infrared Sensing and Energy Harvesting at Nano-Scale on 2D Material Platform  
3. Nondispersive Infrared (NDIR) Gas Sensor on free Space and Waveguide Platform  
4. Physical sensor design for MEMS scale Mass-Spectrometer  
5. Deep Learning Embedded IOT for Industry, Smart-Home and Health Care | dihan.hasan@northsouth.edu |
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2. MIMO-OFDM  
3. Network Coding  
4. Wideband, Multiband and Smart Antennas for Wireless Applications  
5. Spectrum Sensing Techniques, Power, and Admission Control  
7. Cooperative and Clustering Distributed Sensors  
8. Sensor Applications | mohammad.matin@northsouth.edu |
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<tr>
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<th>Research Areas</th>
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</thead>
</table>
| Dr. Shazzad Hosain          | Professor              | 1. Mobile, Wireless, and Web Applications Development  
2. Artificial Intelligence & Robotics  
3. Database & Information Systems  
4. Software Engineering        | shazzad.hosain@northsouth.edu                                             |
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2. Modeling & Simulation      | sifat.momen@northsouth.edu                                           |
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</table>
| Dr. Nabil Shovon Ashraf       | Associate Professor | 1. Nanoscale Device Analytical Modeling  
2. Nanoscale Transport Device Physics  
3. Device Reliability  
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2. Remote Healthcare  
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5. Body-centric Wireless Communications  
6. Compact, Smart, and Multi Band Antennas  
7. Smart Cooperative Network: Personal & Body Area Network  
8. UWB Antennas & System  
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5. Solar Cell  
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<tr>
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</table>
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2. Machine Learning  
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4. Distributed Programming | mohammad.khan02@northsouth.edu |
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2. RF, Microwave and Communication Technology  
3. Broadband Access & Communication Technologies | maksud.alam@northsouth.edu |
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</table>
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3. 5G/Terahertz Frequency/mmWave  
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<th>Research Interests</th>
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</table>
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3. Modeling & Simulation                                                                                                                                                                                                 | ashfia.habib@northsouth.edu |
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3. Switched-capacitor & Current-mode Filter Design                                                                                                                                                                   | neethila.poddar@northsouth.edu |
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3. Network Coding  
4. Channel Coding                                                                                                                                         | shahriar.hussain01@northsouth.edu |
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4. Big Data and its Future in the Field of Cyber Security                                                                                                                  | bahalul.haque@northsouth.edu |
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4. Machine Learning  
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Mathematics and Physics
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<tbody>
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<tr>
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<tr>
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</tr>
<tr>
<td>Faculty Name</td>
<td>Academic Title</td>
<td>Research Areas</td>
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</tr>
</tbody>
</table>
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2. Major Theory  
3. Dynamical System Ergodic Theory | hasina.akter@northsouth.edu |
| Dr. Monir Uddin      | Assistant Professor  | 1. Numerical Linear Algebra  
2. Model Order Reduction  
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 | monir.uddin@northsouth.edu |
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2. Mathematical and Numerical Analysis of Nonlinear ODEs and PDEs  
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3. Newtonian and Non-Newtonian Fluid Flow  
4. Chaotic Mixing in Complex Fluid System  
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6. Collective Behavior of Biological Systems | preetom.nag@northsouth.edu |
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| Dr. Syed Ashraf Uddin| Assistant Professor  | 1. Supernova Cosmology  
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<table>
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<th>Email</th>
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</table>
| Dr. Md Harunur Rashid       | Assistant Professor | 1. Molecular Dynamics Simulation  
2. Ion Channel’s Functions  
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3. Cylindrically Polarized Beams  
4. Solar Cell  
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</thead>
</table>
| Dr. Shiblee Ratan Barua     | Assistant Professor | 1. Ab Initio quantum chemistry  
2. High-level electronic structure computations  
3. Vibrational IR spectra simulation  
4. Quantum tunneling analyses  
5. Theoretical reaction kinetics  
6. Astrochemistry          | shiblee.barua@northsouth.edu  
shiblee.barua@nasa.gov       |
| Ishrat Jabeen               | Senior Lecturer   | 1. Rice genetics, particularly that gene/(s) of rice influencing starch digestibility  
2. Transcriptome sequencing analysis of commonly consumed rice varieties | ishrat.jabeen@northsouth.edu           |
| Abhinandan Chowdhury        | Lecturer          | 1. Analytical Bioscience  
2. Synthetic chemistry  
3. Chemical biology  
4. Antibacterial resistance  
5. Drug discovery  
6. Venomics             | abhinandan.chowdhury@northsouth.edu                                  |
| Elvira Ahmad Moulee         | Lecturer          | 1. Toll like receptor mediated inflammatory pathway in Atherosclerosis  
2. Antibiotic resistance pattern of MRSA                           | elvira.moulee@northsouth.edu            |
| Syeda Farhana Afroz         | Lecturer          | 1. Bacterial Pathogenesis  
2. Virology  
3. Host-virus interactions  
4. Innate immune system | syeda.afroz@northsouth.edu                                             |
| Aurchie Rahman              | Lecturer          | 1. Tumour Microenvironment in Regulating Cancer Biology  
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 | aurchie.rahman@northsouth.edu           |
<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Role</th>
<th>Courses</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              |
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Research Areas</th>
<th>Email</th>
</tr>
</thead>
</table>
| Dr. Md. Jakariya             | Professor         | 1. Human Geography 
2. Environmental Risk Assessment 
3. Climate Change Adaptation 
4. Migration and GIS                                                             | md.jakariya@northsouth.edu     |
| 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 | hassan.mahmud@northsouth.edu   |
| 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 | biswas.farhana@northsouth.edu |
| Dr. Nazmul Ahsan Khan        | Professor         | 1. Eco-Health 
2. Climate Change and its Impact on Health 
3. Environmental 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 | nazmul.khan@northsouth.edu    |
| 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 | nahar.kamrun@northsouth.edu   |
| 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 |
|------------------|---------------------|--------------------------------------------------------------------------------|
| Dr. Mohammad Sujauddin | Assistant Professor | 1. Industrial Ecology  
2. Waste Management  
3. Natural Resources Management  
4. Forest Management  
5. Visual Pollution  
6. Environmental Policy |
| 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 |
| 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 |
| Ahnaf Ahmed | Lecturer | 1. Mathematical Programming  
2. Systems Analysis,  
3. Optimization  
4. Decision Support Systems  
5. Operations Research |
| Raisa Bashar | Lecturer | 1. Environmental Economics  
2. Economic Valuation of Ecosystem Services  
3. Climate Change and Adaptation  
4. Alternate Energy Resources |
Pharmaceutical Sciences
| Dr. Hasan Mahmud Reza | Professor | Molecular Biology and Biochemistry  
| 2. Cell Culture  
| 3. Tissue-engineering and Transplantation  
| 4. Epithelial Culture for Human Transplantation  
| 5. Embryology  
| 6. Histology |
| Dr. G M. Sayedur Rahman | Associate Professor & Chair | 1. In Silico Drug design:  
| a. Virtual screening  
| b. De Novo Drug Design  
| c. Pharmacophore Drug Design  
| 2. Molecular Docking  
| 3. Molecular Dynamics  
| 4. Molecular Mechanics  
| 5. Substrate-protein Interaction  
| 6. Protein-protein Interaction  
| 7. Homology Modeling  
| 8. AB Initio Protein Modeling  
| 9. Ramachandran Plot  
| 10. Protein/ small Drug Like Molecule Energy Minimization  
| 11. Substrate Binding Pocket Identification  
| 12. Substrate Interaction in Receptor Pocket  
| a. Hydrogen Bonding  
| b. Hydrophobic Interaction  
| c. Other Types  
| 13. Pharmacophore Design  
| 14. Database Search for new Drug Like Molecule  
| 15. Drug re-purposing |
| Dr. Preeti Jain | Associate Professor | 1. Pharmaceutical Microbiology Biotechnology |
| Dr. Md. Ashraful Alam | Associate Professor | 1. CCl4 Induced Cirrhotic Liver in Rats  
| 2. 2K1C Goldblatt Hypertensive Rat Model  
| 3. ISO Induced Cardiac Remodeling in Rats  
<p>| 4. High Fat Diet Induced Obesity in Rats and Natural Compounds |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Research Areas</th>
</tr>
</thead>
</table>
| Dr. Mohammad Hossain Shariare | Associate Professor | 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) |
| Dr. Asim Kumar Bepari       | Associate Professor | 1. Brain disorders  
2. Neuroscience  
3. In-silico Drug Discovery  
4. Epidemiology |
| Dr. MN Islam                | Associate Professor | 1. Liver Toxicity in Rodent model  
2. Inflammation model and molecular basis of inflammation signaling  
3. Neuropharmacology focusing on Parkinsonism disease in rat model |
| Dr. Md. Mahbubur Rahman     | Associate Professor | 1. Neuropharmacology (focusing inflammation at brain interface) |
| Dr. Murad Hossain           | Associate Professor | 1. Behavioral Neuropharmacology |
| Dr. Tahmina Foyez           | Assistant Professor | 1. Neuroscience |
| Dr. Khondker Ayesha Akter   | Assistant Professor | 1. Cancer Biology  
2. Molecular Biology  
3. Human Cancer Genomics |
| Dr. Nusrat Subhan           | Assistant Professor | 1. Identifying and Quantifying of Polyphenols (specially, flavonoids)  
2. Quantify Phenolic Compounds in Natural Products |
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Research Interest</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Nasrin Akhter</td>
<td>Senior Lecturer</td>
<td>1. Toxicological Studies based on Spectroscopic and Chromatographic Analysis</td>
<td><a href="mailto:nasrin.akhter@northsouth.edu">nasrin.akhter@northsouth.edu</a></td>
</tr>
<tr>
<td>A. F. M. Towheedur Rahman</td>
<td>Senior Lecturer</td>
<td>1. Anti-diabetic Drug Discovery</td>
<td><a href="mailto:towheedur.rahman@northsouth.edu">towheedur.rahman@northsouth.edu</a></td>
</tr>
<tr>
<td>Paromita Islam</td>
<td>Senior Lecturer</td>
<td>1. Pharmaceutical Technology 2. Nanotechnology</td>
<td><a href="mailto:paromita.islam@northsouth.edu">paromita.islam@northsouth.edu</a></td>
</tr>
<tr>
<td>Nusrat Hossain</td>
<td>Lecturer</td>
<td>1. Developing Herbal Formulations 2. Herbal Supplements of Carica papaya Leaves for Dengue Patients</td>
<td><a href="mailto:hossain.nusrat@northsouth.edu">hossain.nusrat@northsouth.edu</a></td>
</tr>
<tr>
<td>Zarin Tasnim Gias</td>
<td>Lecturer</td>
<td>1. Pharmacology</td>
<td><a href="mailto:zarin.gias@northsouth.edu">zarin.gias@northsouth.edu</a></td>
</tr>
<tr>
<td>Sadia Shabnam</td>
<td>Lecturer</td>
<td>1. Pharmacologic Animal Model-Parkinson Disease Model</td>
<td><a href="mailto:sadia.sabnam@northsouth.edu">sadia.sabnam@northsouth.edu</a></td>
</tr>
<tr>
<td>Tabinda Islam</td>
<td>Lecturer</td>
<td>1. Pharmaceutical Technology (Formulation Development, Method Development, Method Validation, ODTs, Factorial Design)</td>
<td><a href="mailto:tabinda.islam@northsouth.edu">tabinda.islam@northsouth.edu</a></td>
</tr>
<tr>
<td>Sabrin Islam Khan</td>
<td>Lecturer</td>
<td>1. Molecular Biology 2. Pharmaceutical Technology</td>
<td><a href="mailto:sabrin.khan@northsouth.edu">sabrin.khan@northsouth.edu</a></td>
</tr>
</tbody>
</table>
Public Health
Dr. Gias U. Ahsan
Dean & Professor
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

gias.ahsan@northsouth.edu

Dr. Dipak K. Mitra
Professor
1. Maternal, Neonatal, and Child Health
2. Chronic Diseases in Developing Countries including Bangladesh
3. Low-cost Interventions to Improve Population Health at the Community Level within Existing Health Systems and Measuring their Impact
4. Design and Maintenance of Research Surveillance Site
5. Clinical Trial and Epidemiological Studies
6. Data Analysis Using Advanced Analytical Techniques
dipak.mitra@northsouth.edu

Dr. Ahmed Hossain
Professor
1. Methodological Research in the Areas of High Dimensional Data Analysis
2. Breast Cancer and Impact of Calorie Restriction Diet on Different Types of Cancers
3. Pharmaceutical Research (phase I-IV analysis)

ahmed.hossain@northsouth.edu
ahmed.hossain@utoronto.ca
Dr. Mohammad Delwer Hossain Hawlader  
Associate Professor  
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  

mohammad.hawlader@northsouth.edu

Dr. Ariful Bari Chowdhury  
Senior Lecturer  
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)  
arif.chowdhury@northsouth.edu

Dr. Mohammad Hayatun Nabi  
Senior Lecturer  
1. Occupational Health Safety Issues on Productivity  
2. Health Service Inequalities under Compliance and Noncompliance Settings  
mohammad.nabi@northsouth.edu

Shahnaz Parveen  
Senior Lecturer  
1. Special Needs Education  
2. Disability Laws and Rights  
3. Adolescent Health  
4. Health Behaviour  
5. Information, Education and Communication  
6. Teaching Learning  
shahnaz.parveen@northsouth.edu

Afrin Ahmed Clara  
Senior Lecturer  
1. Adolescents health  
2. Incorporating Metformin with national protocol of Tuberculosis treatment  
3. Non communicable disease and its complications  
4. Adolescent resilience: A framework for positive mental health  
5. Depression and suicidality among adolescent  
afrin.clara@northsouth.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Research Interests</th>
<th>Email</th>
</tr>
</thead>
</table>
| Yamin Tauseef      | Lecturer    | 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 | yamin.jahangir@northsouth.edu |
| Samiul Hossain     | Lecturer    | 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 | samiul.hossain@northsouth.edu |
| Sadia Chowdhury    | Lecturer    | 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 | sadia.chowdhury@northsouth.edu |
| Segufta Dilshad    | Lecturer    | 1. Health Literacy  
2. Non-Communicable Disease and Lifestyle Modifications  
3. Healthcare Service Quality  
4. Patient Rights and Empowerment  
5. Health Promotion | segufta.dilshad@northsouth.edu |
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Research Interests</th>
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</thead>
<tbody>
<tr>
<td>Shakina Sultana</td>
<td>Lecturer</td>
<td>1. Infectious Diseases, Especially in Children Under 5-years of Age in Bangladesh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Maternal and Child Health (early childhood development and child discipline)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Non-communicable Diseases (NCDs), Especially Oral Cancer and its Premalignant Lesions</td>
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<tr>
<td></td>
<td></td>
<td>4. Environmental and Occupational Health in Bangladesh</td>
</tr>
<tr>
<td>Prasenjit Mondal</td>
<td>Lecturer</td>
<td>1. Gut microbiota and its impact on human health, especially nutrition, immune system, and disease progression.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Combination of genomic data and machine learning techniques to develop better predictors/models for human health and diseases.</td>
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<tr>
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<td>4. Clinical and Public health nutrition with special focus on micronutrient metabolism</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Infectious diseases with a special focus on Neglected Tropical Diseases (NTD)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Clinical Trials</td>
</tr>
</tbody>
</table>

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)
NSU Genome Research Institute (NGRI)
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 (Acinetobacter, 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
South Asian Institute of Policy & Governance (SIPG)

Confucius Institute
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Courses</th>
</tr>
</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 |
| Dr. Salahuddin M Aminuzzaman| Professor & Adviser | 1. Public Policy  
2. Governance  
3. Local Government  
4. Public Administration  
5. Corruption and Integrity |
| Dr. M Mahfuzul Haque        | Adjunct Faculty     | 1. Citizen’s Trust  
2. Public Administration  
3. Youth Mobilization |
| Dr. Zhou Weiwei             | Chinese Director    | 1. Cultural Studies  
2. Chinese Language and Cultural Heritage  
3. Cultural Tourism Research |
| tawfique.haque@northsouth.edu |                     |                                                                         |
| saminuzzaman@gmail.com      |                     |                                                                         |
| mahfuzul354@gmail.com       |                     |                                                                         |
| zhou.weiwei@northsouth.edu  |                     |                                                                         |
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