Organization: Center for Environmental and Geographic Information Services (CEGIS)

The Organization:

The Power, Energy and Mineral Resources Division (PEMRD) of the Center for Environmental and Geographic Information Services (CEGIS) invites applications from qualified, competent and motivated young professionals for the following positions on a full-time contractual basis.

The selected candidates will be engaged in multidisciplinary teams undertaking Feasibility Studies, Environmental Studies (IEE, EIA, ESIA etc.), Engineering and Planning Studies, Survey Activities, Land Acquisition and Resettlement Planning, and other technical assignments related to Solar Parks, Gas Transmission Pipelines, Electricity Transmission Lines, Heavy Industrial Facilities, Power and Energy Infrastructure, and other development projects.

Deadline for Application: November 14, 2026

Title of the Role: Research Consultant

Position-Specific Qualifications and Responsibilities

A. Research Consultant (Mechanical Engineering)

Minimum Educational Qualification

- B.Sc. in Mechanical Engineering from a reputed university.

Additional Advantages / Preferred Qualifications

- M.Sc. in Mechanical Engineering or a relevant discipline.
- Preferably 1-3 years of relevant professional experience in gas transmission pipelines, energy infrastructure, industrial facilities, mechanical engineering design or Feasibility studies.
- Practical knowledge of gas transmission pipeline engineering, including hydraulic modelling, pipeline sizing, design calculations and preparation of preliminary engineering design packages.
- Working knowledge of pipeline simulation and hydraulic modelling software.
- Familiarity with AutoCAD and preparation of engineering layouts, schematic drawings and technical illustrations.
- Experience in quantity estimation, cost estimation and preliminary budgeting of mechanical and pipeline infrastructure components.
- Experience in gas transmission pipeline projects, gas distribution systems or heavy industrial facilities will be an added advantage.

Key Responsibilities

- Perform and contribute to hydraulic modelling and analysis of gas transmission pipeline systems.
- Carry out pipeline sizing and design calculations, including pipe diameter, wall thickness, material grade, operating pressure and other relevant design parameters.

- Contribute to the preparation and review of preliminary pipeline design packages, layouts, schematic drawings and technical illustrations.
- Assist in assessing existing and projected gas demand and supply scenarios for relevant projects.
- Review and evaluate mechanical facilities, equipment and associated infrastructure for gas transmission and heavy industrial projects.
- Contribute to the selection and evaluation of appropriate technologies and engineering alternatives.
- Assist in quantity estimation, cost estimation and preliminary budgeting of pipeline and mechanical infrastructure components.
- Contribute to the preparation of Feasibility study reports, engineering assessments and other technical documents.

B. Research Consultant (Urban and Regional Planning)

Minimum Educational Qualification

- B.Sc. in Urban and Regional Planning (URP) from a reputed university.

Additional Advantages / Preferred Qualifications

- M.Sc. in Urban and Regional Planning or a relevant discipline.
- Preferably 1-3 years of relevant professional experience in Feasibility studies, infrastructure planning, master planning, environmental and social studies, land acquisition or survey-related assignments.
- Practical experience in GIS and Remote Sensing applications, spatial analysis and thematic map preparation.
- Experience in topographic and route alignment surveys, drone-based surveys (UAV) and spatial data processing.
- Experience in preparing Land Acquisition Plans (LAP), Resettlement Action Plans (RAP) or other land-related planning documents.
- Working knowledge of ArcGIS Pro, QGIS and Google Earth Engine (GEE), AutoCAD and relevant GIS/Remote Sensing software.

Key Responsibilities

- Conduct GIS-based spatial analysis and prepare thematic maps for Feasibility Studies and infrastructure development projects.
- Prepare Land Use and Land Cover (LULC) maps using satellite imagery and GIS/Remote Sensing techniques.
- Prepare project location maps, pipeline alignment maps, land use maps, administrative maps and other spatial outputs.

- Supervise and coordinate topographic surveys, route alignment surveys and other field survey activities.
- Review and verify survey data, maps, longitudinal profiles, cross-sectional profiles and other survey deliverables.
- Coordinate with survey teams and ensure the quality and accuracy of survey data and outputs.
- Contribute to the preparation of Land Acquisition Plans (LAP), land use assessments and related planning documents.
- Assist in the preparation of Resettlement Action Plans (RAP) and other social and land acquisition-related documents, where required.
- Contribute to Feasibility Studies, EIA/ESIA reports, technical reports and other project deliverables.

C. Research Consultant (Civil Engineering)

Minimum Educational Qualification

- B.Sc. in Civil Engineering from a reputed university.

Additional Advantages / Preferred Qualifications

- M.Sc. in Civil Engineering or a relevant discipline.
- Preferably 1-3 years of relevant professional experience in infrastructure development, Feasibility Studies, engineering studies, environmental studies or survey-related assignments.
- Practical experience in topographic surveys, route surveys, engineering assessments and preparation/review of survey deliverables.
- Experience in mathematical modelling, particularly environmental modelling, hydraulic/hydrological modelling or water-sector modelling.
- Candidates with a strong interest in engineering design, particularly structural and infrastructure design, preparation of engineering drawings and basic design calculations, will be an added advantage.
- Working knowledge of GIS and spatial analysis, AutoCAD and engineering design applications.
- Experience in quantity estimation, cost estimation and preparation of preliminary engineering designs.
- Familiarity with modelling software such as Hydraulic/hydrological modelling, Environmental modelling and other relevant modelling tools will be an added advantage.

Key Responsibilities

- Conduct and contribute to GIS-based spatial analysis and engineering-related mapping for infrastructure projects.

- Supervise and coordinate topographic surveys, route alignment surveys and other engineering survey activities.
- Review and verify survey data, maps, longitudinal profiles, cross-sectional profiles and other technical deliverables.
- Contribute to engineering assessments, preliminary designs and technical evaluations of infrastructure components.
- Perform or contribute to mathematical modelling, including environmental, hydraulic, hydrological and water-sector modelling, as relevant to project requirements.
- Assist in engineering calculations and technical assessments for relevant infrastructure components.
- Contribute to quantity estimation, preparation and review of cost estimates and preliminary budgeting of project components.
- Participate in alternative analysis, engineering feasibility assessments and technical evaluations.
- Contribute to the preparation of Feasibility Study reports, EIA/ESIA reports and other technical documents.

General Skills and Competencies (Applicable to All Positions)

Candidates for all three positions should demonstrate the following competencies:

- Ability to work collaboratively in multidisciplinary professional teams.
- Strong analytical, problem-solving and organizational skills.
- Good communication, coordination and interpersonal skills.
- Strong technical writing skills with close attention to detail.
- Ability to manage multiple assignments simultaneously and meet demanding deadlines.
- Ability to work effectively under pressure and demonstrate a proactive, results-oriented attitude.
- Good proficiency in Microsoft Office applications, particularly MS Word, Excel and PowerPoint.
- Good written and verbal communication skills.
- Willingness and readiness to undertake frequent field visits to remote project locations, including occasional visits during weekends, as required by project activities.

Employment Conditions

- **Employment Type:** Full-time, Contractual.

- **Initial Contract Duration:** 06 (six) months.
- **Extension:** Subject to project requirements and satisfactory performance.
- **Salary**: Negotiable
- **Duty Station:** CEGIS, Dhaka (with frequent field visits to project locations as required).
- Selected candidates will work on multiple assignments and coordinate with multidisciplinary professionals.
- Frequent field visits to different project locations across Bangladesh will be an integral part of the assignments.
- Candidates must be prepared to work under tight project schedules and meet the required technical and reporting deadlines.

Application Procedure

Interested and eligible candidates are requested to submit the following documents:

1. An updated and detailed Curriculum Vitae (CV) mentioning relevant professional experience, including projects undertaken, technical competencies, software proficiency, research experience and publications, where applicable.
2. A cover letter explaining why the candidate considers himself/herself suitable for the applied position.

Important: Candidates must clearly mention their **expected monthly salary (in BDT)** in their CV or cover letter. Applications without the expected monthly salary may not be considered.

Application Email: pemrdiv@gmail.com

Email Subject Line:

- Application for Research Consultant - URP
- Application for Research Consultant - Civil Engineering
- Application for Research Consultant - Mechanical Engineering

Only shortlisted candidates will be contacted for further assessment, which may include a written examination, practical assessment, technical interview and/or presentation.

Note: The authority reserves the right to reject all or any application.