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Office of the Director

FSM Personnel Office

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EMPLOYMENT OPPORTUNITY

The Government of the Federated States of Micronesia (GoFSM), Department of Resources and Development (DoRD), Energy Division is requesting proposals from interested ***Building Energy Efficiency Specialist*** or ***Building Energy Efficiency Consultancy firms*** who will establish energy use and environmental condition baselines; identify, quantify and specify appropriate ESMs; and monitor actual energy and environmental improvements against pre-ESM implementation baselines.

The Position:

- Reviewing the applicable FSM public sector buildings' cooling, infiltration, ventilation, lighting, hot water and other key electrical equipment's energy requirements to obtain a robust energy balance that accords with historical and current electricity utility bills;
- Reviewing the current key thermal, infiltration, ventilation, lighting, hot water, and other energy using equipment, their performance, and their operations and maintenance status;
- Determining current energy use, EE status, temperatures, humidity, fresh air supply, lighting levels and other lighting system attributes, hot water provision and usage, and health impacts of existing cooling, ventilation, hot water, natural and artificial lighting etc., system;
- Modeling building energy use to align it with actual utility billing data as part of building baseline energy use analysis and the allocation of energy (electricity) use to energy end uses;
- Identifying options (e.g. adding external shading, reducing uncontrolled ventilation from existing louver windows and poorly sealed doors etc., adding insulation, turning off lights in unoccupied and/or adequately day lit spaces etc.) reducing cooling requirements from reducing over-cooling and excessive ventilation loads, reducing condensation and mold growth effects, improving indoor air quality, reducing the need for artificial lighting, introducing systematic improved operations and maintenance practices. etc.;
- Identifying and prioritizing EE equipment modification/replacement options-such as replacing old low SEER/EER unit ACs with suitable and long-life high SEER/EER replacements, modifying central AC systems to increase their EE, replacing fluorescent tubes and compact lamps with either LED drip-in light sources or replacing with all -new fixtures with integrated high efficiency and long-life LEDs, etc.;
- Quantifying the costs and savings of the proposed EE measures and equipment;
- Development of specifications for EE renovation/demonstration/replication EE measures and equipment;
- Evaluating the post-installation and post-commissioning performance of key energy using EE renovations/demonstrations/replications;
- Providing inputs to reports and communications regarding the proposed EE measures, and to their subsequent achieved results;

The Incumbent:

- Master's Degrees degree in energy engineering, building Physics, building services, HVAC and lighting related field or equivalent work experience;
- At least ten (10) years of (more experience would be a bonus) of relevant experience in the field of building energy efficiency including; previous work in building thermal, ventilation and lighting modelling and/or simulation and/or calibration and verification;
- Demonstrated experience in energy audits and retrofit EE/Green designs and renovations in buildings;
- Establishment of energy/performance baselines in buildings;
- Building EE thermal and equipment retrofits;
- The monitoring of actual results versus baselines and modelled predictions;
- EE policy development and translating demonstrations into replications and then into mainstreamed projects;
- The introduction of continuous improvement programs via ISO 50001 or equivalent energy management programs;
- Energy audit processes and program design and optimization for implement
- At least ten (10) years of (more experience would be a bonus) of relevant experience in the field of building energy efficiency including: previous work in building thermal, ventilation and lighting modelling and/or simulation and/or calibration and verification;
- Experience dealing with national experts and international institutions is an added advantage;
- Exposure to environmental issues or biodiversity desirable, but not required;
- Be fully computer literate with Microsoft Office Programs;

- Experience in providing a streamlined financial service role to a project management team, including experience in developing and delivering financial reports;
- Familiar with financial and procurement process within UNDP is desirable;
- Demonstrated initiative in carrying out his/her duties and ability to work independently with tight deadlines; and
- Ability to operate standard office equipment and familiarity with principles of accounting and office practices are essential.

Benefits:

Technical Proposal

- A statement of how the applicant meets the qualifications and experience requirements.
- A complete signed Job Application Form.
- Proposed methodology/approach including preliminary work plan (covering deliverables, key activities and due dates).

Financial Proposal

- A completed Offeror's Letter confirming Interest and Availability for the Individual Contractor (IC) Assignment including Annex A: Breakdown of Cost by Components.

Duration: One (1) year, renewable based on Performance Evaluation Report.

To Apply: Send Application/Resume by mail, fax to the following addresses:

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The Office of Personnel will be accepting application/resume from December 21, 2021 until filled.