PUBLICATION OF VACANT POSITION
Institutional Contract of Service (Manpower Agency)

POSITION	:	Project Technical Assistant IV (Electrochemical Sensor Engineer)
SALARY GRADE	:	13
NO. OF POSITIONS AVAILABLE	:	1
LOCATION	:	DOST-ASTI/ Quezon City
JOB QUALIFICATION	:	
Education	:	BS Chemical Engineering, or related course such as Material Science and Engineering, etc.
Experience	:	None required
Training	:	None required
Eligibility	:	None required

RESPONSIBILITIES:
Under general supervision and direction, HE/SHE shall perform the following:

- Serve as a member of the Project Management Team of the AqWANetIO Project.
- Provide support in project management activities including travel coordination, financial and procurement monitoring.
- Design and prototype a robust ammonia-selective sensor suitable for freshwater, wastewater or aquaculture environment.
- Select and validate membrane materials, ionophores, or indicator chemistries for selectivity against ions (K+, Na+, Ca2+, pH variations).
- Optimize sensor geometry, housing and encapsulation for long-term immersion and low drift.
- Develop and execute calibration protocols across multiple concentration ranges (0.1-50 ppm NH3-N).
- Conduct temperature, pH, and salinity compensations tests to ensure accuracy under real-world conditions.
- Perform repeatability, reproducibility, and lifetime tests (e.g., drift over 30 days, response time).
- Design automated flow injection analysis (FIA) or benchtop setups for high throughput validation.
- Support data collection and consolidation for performance and evaluation reports.
- Work closely with embedded systems engineers to integrate the sensor with data logging and telemetry hardware.
- Coordinate with field technicians to test sensors in real water matrices (e.g., river, effluent, or tank water).
- Train junior lab staff on proper handling, calibration, and maintenance of the sensor system.
- Adherence to Best Practices & Standards
- Follow ISO 15839 (Water quality – On-line sensors/sensing equipment) for testing protocols.

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- Document all procedures according to GLP (Good Laboratory Practice) and internal quality management.
- Ensure sensor design complies with relevant EPA Method 350.1 (ammonia by colorimetry) or Standard Methods 4500-NH_3.
- Maintain safety data sheets (SDS) and lab safety protocols for handling ammonium standards.
- Familiarity with machine learning for multi-sensor array calibration (optional).
- Perform other related duties as assigned.

APPLICATION:

1. Accomplish the Application Form through this link: DOST-ASTI Application Form AqWaNetIO – Fill out form
2. Interested applicants should submit a letter of intent addressed to ALVIN E. RETAMAR, aqwanet@asti.dost.gov.ph, with a copy furnished to careers@asti.dost.gov.ph. Please use the subject line format: [AqWaNetIO] <position> | LN, FN (e.g., [AqWaNetIO] Project Technical Assistant IV | Dela Cruz, Juan). Applicants must also submit the following:

:

1. Updated Personal Data Sheet;
2. Diploma and TOR;
3. Certificate/s of employment; and
4. Training certificate/s.

APPLICATION DEADLINE: 02 November 2026

IMPORTANT NOTES:

- Only applications with complete requirements including an accomplished **Application Form (link cited above)** shall be processed.
- Application documents should be in Portable Document Format *(.pdf)* with proper file name.
- Applicants who are interested in applying to various vacancies must submit separate applications for each vacant position.
- Due to the volume of applications received by this Agency, we will be inviting only those who are shortlisted to proceed with the recruitment process.

As an advocate of the Equal Employment Opportunity Principle (EEOP), the DOST-Advanced Science and Technology Institute encourages and welcomes all applicants regardless of age, religion, or political affiliation including persons with a disability, members of indigenous communities, and those from any sexual orientation and gender identities.

DOST-ASTI Privacy Notice: All personal information contained in any document received or transmitted herein shall be used solely for documentation and processing purposes within the DOST-ASTI and shall not be shared with any outside parties, unless with your written consent. We are committed to protect personal data in accordance with R.A. 1073 (Data Privacy Act of 2012). All personal information shall be retained and stored by the DOST-ASTI within a time period in accordance with the National Archives of the Philippines' General Disposition Schedule.

----------***Nothing Follows*****----------**