



PUBLICATION OF VACANT POSITION (Project-Based)

POSITION	: Project Technical Specialist V (PTS V)
SALARY GRADE	: 20
NO. OF POSITIONS AVAILABLE	: 1
LOCATION	: DOST-Advanced Science and Technology Institute, C.P. Garcia Avenue, Diliman, Quezon City / UP National Engineering Center, UP Campus, Diliman, Quezon City
JOB QUALIFICATION	:
Education	: Bachelor's Degree in Electronics Engineering / Computer Engineering / Computer Science or any related field
Experience	: 3 years of relevant experience
Training	: 16 hours of relevant training
Eligibility	: Not Applicable
Other Requirements	<ul style="list-style-type: none">• Strong quantitative analysis and critical thinking skills;• Strong fundamental statistics skills, and linear algebra handling skills;• Familiarity with statistical programming languages like Python, or R;• Proficiency with scientific Python toolkit, and TensorFlow + Keras, Pytorch, Caffe, etc.;• Fluency with open-source frameworks and good software engineering practices; and• Comfort in using cloud platforms (AWS, GCP) for training machine learning models.

RESPONSIBILITIES:

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

- Develop a scalable data infrastructure to support multi-crop disease detection, ensuring efficient data collection, storage, and processing for model training and validation;
- Refine the design and implementation of an existing computer vision plant disease detection pipeline based on TensorFlow and PyTorch to enhance correctness and performance;
- Expand an existing plant disease detection pipeline to cover a wider variety of crops, developing new models and datasets as necessary;
- Design and implement automated field testing of plant disease detection models using ground robots equipped with ROS, focusing on enhancing model accuracy and speed in the field;
- Validate disease detection effectiveness, usability, and transparency with farmers through built-in explainability measures and periodic feedback sessions with farmers;

- Maintain adherence to industry best practices in MIOps to ensure robust and efficient model deployment and maintenance;
- Deliver high-quality software design, documentation, and implementation;
- Collaborate in formulating a sustainability plan for the commercialization of the project and potential application of developed technologies in other fields;
- Participate in events and other activities (e.g., exhibits, meetings, and seminars) necessary in the implementation of the project; and
- Perform other duties as may be required by the Institute.

APPLICATION:

1. Accomplish the Application Form through this link: <https://forms.office.com/r/m5LdYWGQB1>
2. Interested applicants should submit the following application requirements to emman@asti.dost.gov.ph, cc: careers@asti.dost.gov.ph:
 - a. Letter of Intent addressed to **Engr. Peter Antonio B. Banzon**, Chief, Research and Development Division, DOST-Advance Science and Technology Institute;
 - b. Updated Curriculum Vitae and Personal Data Sheet (please use CSC Form 212 Revised 2017 and its attachment for work experience);
 - c. Scholastic records (please provide a copy of your Diploma and Transcript of Records);
 - d. Training certificate/s (if applicable); and
 - e. Certificate/s of Employment (if applicable).

APPLICATION DEADLINE: 17 JUNE 2025

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