



## ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE

### PUBLICATION OF VACANT POSITION

<b>POSITION</b>	:	Project Technical Officer VI (Senior AI Engineer)
<b>SALARY GRADE</b>	:	SG 21
<b>NO. OF POSITIONS AVAILABLE</b>	:	1
<b>LOCATION</b>	:	Computer Software Division
<b>JOB QUALIFICATION</b>	:	N/A
Education	:	Bachelor's degree or higher in Computer Science, Artificial Intelligence, Data Science, Engineering, or a related field with extensive experience in machine learning, deep learning, and AI model development.
Experience	:	3 years of relevant experience in AI Engineering, Data Science, or Machine Learning Model Deployment. Proven experience in leading the end-to-end development of AI models from research to production. Experience in AI model optimization, scalability, and performance tuning.
Training	:	16 hours of relevant training in AI/ML frameworks, deep learning, cloud AI solutions, and MLOps. Certifications in AI-related fields (Google TensorFlow Developer, AWS ML Specialty, Microsoft AI Engineer) are a plus.
Eligibility	:	None required
Other Requirements	:	Technical Expertise: <ul style="list-style-type: none"><li>• Programming &amp; AI Frameworks:<ul style="list-style-type: none"><li>◦ Strong proficiency in Python and experience with AI/ML frameworks like TensorFlow, PyTorch, Scikit-Learn, or JAX.</li><li>◦ Experience in distributed computing (Dask, Spark, Ray) for AI workloads.</li></ul></li><li>• Machine Learning &amp; AI Model Development:<ul style="list-style-type: none"><li>◦ Strong knowledge of supervised, unsupervised, and reinforcement learning techniques.</li><li>◦ Expertise in deep learning architectures (CNNs, RNNs, Transformers, GANs, and VAEs).</li><li>◦ Familiarity with Generative AI, Retrieval-Augmented Generation (RAG), and LLM fine-tuning.</li><li>◦ Experience in NLP (BERT, GPT, LLaMA) and computer vision models (YOLO, ViT, EfficientNet).</li></ul></li><li>• Data Engineering &amp; MLOps:<ul style="list-style-type: none"><li>◦ Experience in building AI pipelines, feature engineering, and dataset preprocessing.</li><li>◦ Hands-on experience with MLOps tools such as MLflow, Kubeflow, Docker, and Kubernetes.</li><li>◦ Knowledge of Vector Databases (Pinecone, FAISS, Weaviate) and Graph Neural Networks.</li></ul></li><li>• Cloud &amp; AI Deployment:<ul style="list-style-type: none"><li>◦ Experience deploying AI models using Google Vertex AI, Azure Machine Learning, AWS SageMaker, or on-prem AI infrastructures.</li><li>◦ Strong background in API development and microservices for AI model deployment.</li><li>◦ Proficiency in cloud-based computing (GCP, AWS, Azure) and GPU acceleration (CUDA, TensorRT).</li></ul></li><li>• Software Engineering Best Practices:<ul style="list-style-type: none"><li>◦ Strong background in software development methodologies, CI/CD, version control (Git), and containerization (Docker, Kubernetes).</li></ul></li></ul>

## RESPONSIBILITIES:

Under the supervision of the Project Leader, HE/SHE shall perform the following:

- AI Model Development & Research:
  - Design, implement, and optimize advanced AI models for applications such as natural language processing (NLP), computer vision, and predictive analytics.
  - Monitor research efforts in AI model fine-tuning, hyperparameter optimization, and transfer learning.
  - Stay updated with cutting-edge AI advancements and incorporate state-of-the-art techniques into the project.
- AI System Engineering & Deployment:
  - Develop scalable AI solutions for deployment in cloud and on-prem infrastructures.
  - Develop end-to-end AI pipelines, integrating data ingestion, training, inference, and monitoring.
  - Work with software engineers and DevOps teams to deploy AI models efficiently.
- Data Engineering & Processing:
  - Monitor and preprocess large datasets, ensuring efficient feature extraction and real-time data pipelines.
  - Develop vector search and knowledge graph-based retrieval systems for AI applications.
- Collaboration & Documentation:
  - Work closely with data scientists, researchers, and software engineers to align AI solutions with project goals.
  - Document AI model architectures, datasets, and methodologies for internal and external stakeholders.
  - Attend every mentorship and training for junior AI engineers and research associates.
- Performance Optimization & Monitoring:
  - Conduct model benchmarking, explainability analysis, and AI performance evaluations.
  - Develop monitoring tools for AI model drift, bias detection, and performance degradation.
- Other Tasks as Assigned:
  - Contribute to research publications and DOST-funded AI initiatives.
  - Participate in Project NAIRA in AI-related forums, conferences, and workshops.

## APPLICATION:

Interested candidates are required to submit a detailed CV, a cover letter expressing interest and fit for the role, and copies of relevant publications or research papers. Applications should be directed to [vanesa.osiana@asti.dost.gov.ph](mailto:vanesa.osiana@asti.dost.gov.ph), [daphne.padilla@asti.dost.gov.ph](mailto:daphne.padilla@asti.dost.gov.ph), cc [careers@asti.dost.gov.ph](mailto:careers@asti.dost.gov.ph) by **26 June 2025** along with the following:

APPLICATION: <https://forms.office.com/r/K5QXVmZzGx>

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

**APPLICATION DEADLINE: 26 June 2025**

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