

BANSILAL RAMNATH AGARWAL CHARITABLE TRUST'S

VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE

DEPARTMENT OF INSTRUMENTATION ENGINEERING

RECRUITMENT UNDER ISRO-SPPU RESPOND RESEARCH PROJECT

A VISION LANGUAGE MODEL FOR PROMPT-BASED SEMANTIC UNDERSTANDING OF SAR IMAGES

PROJECT ASSOCIATE-1 | 01 POSITION

INR 31,000 + HRA (as per ISRO/DST norms) | Age limit: 35 years

● PROJECT FOCUS

- 01 Multimodal Vision-Language Models (VLMs)
- 02 Synthetic Aperture Radar (SAR) Processing
- 03 Prompt-Driven Fine-Tuning & Zero-Shot Learning
- 04 Semantic Segmentation & Target Recognition

Keywords: Remote Sensing, Deep Learning, PyTorch, Multi-modal AI, SAR Analysis.

● WHO CAN APPLY

B.E. / B.Tech or M.E. / M.Tech in Instrumentation Engineering, Computer Engineering, Information Technology, Artificial Intelligence, Data Science, Electronics & Telecommunication, Signal Processing, or allied specializations.

ESSENTIAL SKILLS & BACKGROUND:

Strong background in Python, Deep Learning (PyTorch / TensorFlow), Computer Vision, and NLP. Hands-on experience in remote sensing / SAR datasets is preferred.

● KEY RESPONSIBILITIES

- Preprocess, annotate, and curate SAR benchmark datasets.
- Design, train, and fine-tune Vision Language architectures.
- Implement prompt-guided semantic segmentation algorithms.
- Evaluate model performance and benchmark against SOTA models.
- Prepare technical reports, publications, and documentation.

● GENERAL TERMS & CONDITIONS

- Purely temporary appointment for project duration.
- Continuation for subsequent years is performance-dependent.
- **Shortlisted candidates will be notified via email for interview details.**
- No TA/DA will be provided for attending the interview.
- Selected candidate may visit collaborating ISRO labs.

HOW TO APPLY

Principal Investigator: Dr. Archana Chaudhari

Email To: archana.chaudhari@vit.edu

Email Subject: Project Associate -1 VIT ISRO project

DOCUMENTS TO ATTACH:

- ✓ Updated Curriculum Vitae (CV)
- ✓ Cover letter with research interests
- ✓ Degree certificates & marksheets
- ✓ Experience / Publication proofs

DEADLINE
30 AUG
2026

Application Deadline: 30 August 2026

Applications evaluated on a rolling basis until position is filled.

*** Shortlisted candidates will be notified via email for interview details.**