

Job Description: Simulation Specialist (RA-I / Senior Project Associate)

Project Area: Astrodynamics and Space Situational Awareness (SSA) Software Development

Principal Investigator: Dr. Sanat K Biswas, IIIT Delhi Space Technology Centre

Duration: 12 months

Overview

The IIIT Delhi Space Technology Centre is recruiting Simulation Specialists (RA-I / Senior Project Associate) to contribute to the development of an advanced astrodynamics and Space Situational Awareness software suite. This role focuses heavily on scenario building, validation, and performance verification of trajectory tracking and estimation algorithms.

Key Responsibilities

- Design and execute complex, realistic simulation scenarios for astrodynamics and space situational awareness applications.
- Conduct comprehensive validation and performance verification of physics-based software systems and associated tracking algorithms.
- Analyze simulation results and prepare detailed technical documentation and performance reports.
- **Travel Requirement:** Frequent travel is required for this position. Please note that up to 6 months of the 12-month appointment duration will be based in Bangalore.

Qualifications & Skills

- **Minimum Educational Qualification (as per DST guidelines):**
 - **For Research Associate-I (RA-I):** Ph.D degree in Aerospace Engineering or in allied areas or having 3 years of research, teaching and design and development experience after M.Tech Aerospace Engineering or in allied areas with at least one research paper in Science Citation Indexed (SCI) journal.
 - **For Senior Project Associate:** M.Tech Aerospace Engineering or in allied areas or bachelor's degree in Aerospace Engineering or in allied areas from a recognized University or equivalent AND Four years' experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organisations and Scientific activities and services.

- Strong background and hands-on experience in orbital mechanics simulations and astrodynamics.
- Proven ability in the validation and verification of complex numerical and physics-based software systems.
- Excellent technical writing and documentation skills.
- Ability to work effectively within a research team and coordinate with external stakeholders during deployments.

Compensation

- **Research Associate-I (RA-I):** ₹58,000 per month + 24% HRA.
- **Senior Project Associate:** ₹57,000 per month + 24% HRA.

Application Process

How to Apply To apply, fill the form here: <https://forms.gle/HuxeGxcaj5Sf6EYdA>

Deadline: 15th March, 2026

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