

INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI

(A State University established by Govt. of NCT of Delhi)

Date: March 20, 2023

Subject: Inviting applications for a **JRF/PhD** position in **Multi-sensor data fusion and Orbit determination with nonlinear estimation for space debris RADAR**. This position is sponsored by ISRO Respond Program. Due to increased human activity in the last two decades, near-earth space is becoming congested from functional/non-functional satellites and space debris. These space objects of human origin and natural asteroids, and space weather possess natural, accidental, or intentional threats to the functional and expensive satellites.

The successful candidate will work on a project funded by the ISRO Respond program and participate in developing advanced multisensory data fusion and estimation algorithms to track space debris. This position provides the selected candidate with a unique opportunity to contribute towards India's self-reliance in risk assessment for space assets by providing operationally flexible, scalable, transparent and indigenous space situational awareness solutions.

Post	JRF/PhD
Monthly Remunerations	Rs. 31,000/- for CSIR-UGC Net (Assistant Professorship)/ GATE qualified candidate
Qualifications	<p>Essential:</p> <ul style="list-style-type: none"> • Bachelor or master's degree in CSE, ECE, Aerospace Engineering or related field with CGPA ≥ 7.5 • CSIR-UGC Net (Assistant Professorship)/ GATE qualified • Good written, verbal, and visual communication skills. • Knowledge about linear algebra, vector calculus, State Space Methods, Modern Control Theory • Proficient in Linux, MATLAB, and Python • Maximum age limit – 35 years <p>Desired:</p> <ul style="list-style-type: none"> • Knowledge on orbital mechanics, Kalman Filter • Experience in Applying Kalman Filter
Duration	3 years (may be extended)
Application Deadline	<ul style="list-style-type: none"> • Submit your application on or before June 30 • The positions will be filled as soon as a suitable candidate is found.



Application Process	Submit your application in the following link: https://forms.gle/2Kb8JFV721nGiZd86 Contact: Dr. Sanat K Biswas Assistant Professor Email: sanat@iiitd.ac.in https://ssl.iiitd.edu.in/
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