GOVERNMENT OF KERALA
DEPARTMENT OF TECHNICAL EDUCATION
COLLEGE OF ENGINEERING TRIVANDRUM

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Advertisement for the post of Project Associate (01)

Applications are invited from highly motivated candidates for the position of Project Associate in a sponsored project of ISRO under the RESPOND scheme for the project entitled "**RES-SDSC-2025-009: Real time JPDA & MHT based Data Association in dense multi target tracking environment**" to be implemented jointly by College of Engineering Trivandrum and ISRO SDSC-SHAR.

Aim of the Project: Multi Object Tracking Radar (MOTR) is an L-Band Active Phased Array Radar designed to track multiple targets. It is a long range skin mode tracking radar capable of tracking 0.25m2 RCS targets up to a range of 1000km. MOTR can track more than 10 simultaneous targets using a single agile beam. MOTR has implemented Linear Kalman filter (LKF) and Extended Kalman filter (EKF) for tracking multiple targets simultaneously and Simple Nearest neighborhood (SNN) based data association algorithm to associate target returns with the target being tracked. SNN data association algorithm gives a better result in tracking multiple targets when the targets being tracked are spatially separated. When multiple targets are very close, the SNN algorithm gives poor results. It also fails in situations like targets cross over and co traveling of two targets. To overcome this situation, probability based data association (PDA) methods like Joint Probability data association (JPDA) and Multiple Hypothesis Tracking (MHT) algorithms are used. Since these algorithms uses probability based algorithms these are complexly incorporated to SNN. Hence these algorithms are mostly used in offline analysis.

Selected candidates will have the opportunity to work on this prestigious project.

Duration: 18 Months.

Eligibility:

1. **Project Associate:**
   Scale of pay: 31000.0; HRA - Type Z (20%) per month.
   Essential: BTech/BE in EC/EE/AE/EI with CGPA of 8 or more.
   Desirable: MTech/ME in EC/EE/AE, Industry experience of 0-2 years/ Very good knowledge in Python/C/ Matlab Programming, Experience in GNSS, Kalman Filter.
   How to apply?
   Share the Biodata to sreejas@cet.ac.in (9447906670) on or before 15th November 2026.

PRINCIPAL
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