



Manas Maity

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CMS Collaboration, CERN, CH-1211 Geneva 23, Switzerland

Ref: CMS Project/JRF-Selection-2025

24/06/2025

The Department of Physics, Visva-Bharati is one of the groups from India participating in the **Compact Muon Solenoid (CMS)** experiment at the **Large Hadron Collider (LHC)**, CERN, Geneva with funding from the **Department of Science & Technology, Government of India**. More than 3000 scientists and PhD students from leading institutes of the world are participating in this experiment to study the properties of elementary particles and search for new particles.

The Visva-Bharati group contributes to the following areas.

1. Analysis of the large volume of data with emphasis on study of Quantum Chromodynamics – structure of jets, event shape variables, etc;
2. R&D related to detector, particularly electronics and instrumentation.
3. Operation & maintenance of the detector.

Applications are invited from motivated students for
Junior Research Fellow/ Project Associate (2 positions)

The candidates will take part in R&D related to the CMS detector upgrade, detector related electronics/ instrumentation, installation and commissioning of detector modules, and contribute to operation, maintenance and upgrade of the CMS detector.

Essential Qualifications:

M.Sc. (Physics), or, M.Sc. (Electronics) with at least 60% marks or equivalent grade.

Desirable Qualifications:

1. Knowledge of electronics.
2. Knowledge of particle detectors, detector related instrumentation.
3. Knowledge of computer programming – Python, C/C++.

Remuneration – Rs. 25,000 + HRA; candidates who have qualified UGC-CSIR NET/ GATE will be paid Rs. 37,000 + HRA.

Duration: 3 Years. May be extended with availability of funds.

Applications along with self-attested photocopies of supporting documents (Marksheets of M.Sc. and NET/GATE certificate) should reach within **08.07.2025** by post/ email.

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