Titolo del progetto:	"Tests of a streaming readout DAQ system for EIC"
Esperimento/sigla proponente	EIC_NET
Laboratorio ospitante	JLab
Contact person presso il laboratorio	Marco Battaglieri
Periodo previsto:	Marzo – Settembre 2023
Sezioni e tutor proponenti:	GE Marco Battaglieri
Descrizione attività (max 1000 caratteri)	Experiments with intense lepton beams require a new data acquisition technology to stand high luminosity operations expected for the next future. Streaming readout DAQ represents a valuable option. In streaming mode observable of interest (charge, time, multiplicity , ..) are continuously sampled and transferred from the front end electronics to a sophisticated backend software. Here a data analysis code defines a trigger using the entire detector information. JLab, in collaboration with INFN, developed a SRO DAQ framework to demonstrate the validity of such an approach. The candidate will be involved in the ongoing research activity supporting the cosmic muons and on-beam tests planned at Jefferson Lab for 2023. The experimental set up includes: an EIC calorimeter prototype made by 3x3 PbWO crystals and the CLAS12 Forward Tagger calorimeter and hodoscope in Hall-B.
Altre indicazioni: (max 500 caratteri)	
Facility che il laboratorio ospitante mette a disposizione	Guesthouse a distanza di cammino dal laboratorio, mensa per colazione e pranzo all'interno del laboratorio
Note:	