

Expression of Interest (EOI) Questionnaire

Please indicate the name of the contact person for this submission:

Christine Aidala (caidala@umich.edu)

Please indicate all institutions collectively involved in this submission of interest:

University of Michigan

Please indicate the items of interest for potential equipment cooperation:

In general, the University of Michigan group is not in a position to lead the development or construction of a detector subsystem, so we will be contributing collaboratively to equipment for which other institutions take the lead. My group is particularly interested in contributing to the Forward Silicon Vertex Tracker led by Los Alamos, but we are open to a variety of other potential equipment cooperation.

Please indicate what the level of potential contributions are for each item of interest:

See labor contribution discussion below.

Please indicate what, if any, assumptions you made as coming from the EIC Project or the labs for your items of interest:

None.

Please indicate the labor contribution for the EIC experimental equipment activities:

The time commitment of members of the University of Michigan group in the EIC efforts described in this EoI is anticipated to be as follows:

Institution Name	Professor	Research Professor	Staff Scientist	Postdoc	Graduate Student	Undergrad. student	Engineer	Designer	Technician	Total Sum
University of Michigan	0.1			0.5	0.25	0.2				1.05
					0.25					0.25
					0.25					0.25
									Total	1.55

NOTE: FTE in the above table represents the annual fractional full time equivalent (FTE).

NOTE: for a professor, full-time equivalent research time may be limited to 25% max, for a research professor (or a sabbatical) or a staff scientist limited to 50% max, for a postdoc maybe 100%, and for a grad. student perhaps 50% (on average). For an undergraduate student research time (on average) is limited to 20% max.

It is anticipated that the collaborative effort of the University of Michigan to cooperate on the EIC Project is to include (at an annual basis) 0.1 full-time equivalent FTEs of a professor, 0.5 FTE of a postdoctoral researcher, 0.75 FTEs of Ph.D. students, and 0.2 undergraduate students. We

anticipate the duration of this collaborative effort to cooperate on the EIC Project to start at the DESIGN phase and to be for a period of FIVE years.

Please indicate if there are timing constraints to your submission:

In general, I expect my group to be able to contribute at an increased level after 2025, beyond that described above.

Please indicate any other information you feel will be helpful:

At the University of Michigan I have lab space of approximately 900 square feet that could be used for component or electronics testing, assembly of modest-sized equipment, or storage. We additionally have a relatively small machine shop available (<https://lsa.umich.edu/instrumentshop/researchers.html>), with a shop rate of \$72.50.