Tremendous potentials for a greater America lie in our ability to harness the latent super power in gas turbine engines to propel aircraft, railroad trains, automobiles. Already a tubo-jet fighter plane has flown 650 miles per hour. But what mechanical marvels will be forthcoming by 1953 when the gas turbine engine becomes well entrenched in the large commerical transport field?

So vital is the fundamental research in Mechanical Engineering that the department is presently engaged in a major development program for the U.S. Air Force. Defrosting and counteracting icing conditions of engines and the leading edges of wings promises to save the lives of air crews. Developing a gas turbine heat exchanger to recover heat lost by the engine exhaust will make for greater efficiency and speed in American combat aircraft.

Mechanical Engineering is the largest department at IIT, and its faculty includes world-famed authorities. Yet, crammed into an inadequate, outmoded, 46-year-old building, the Department is bursting its rivets attempting to continue its leadership in an art dealing in terms of jet propulsion, but held back by a horse-and-buggy building.

Technology Center's proposed Mechanical Engineering Building will be equipped with a Steam Laboratory, an Internal Combustion Engine Laboratory, a complete Machine Tool Laboratory, and a unique Machine Design Room and Laboratory enabling students to design industrial machines and then take them out of the paper stage and actually build them.

Cost of Mechanical Engineering Building: \$900,000