Young engineer is responsible for design analysis of $3,000,000 turbine-generators

The average large steam turbine-generator costs $3,000,000 and takes two years to build. It is one of the biggest pieces of electrical equipment made. Yet its thousands of parts are put together as carefully as a fine watch. Even a small change in design can affect the stresses and vibrations of the turbine, and the way it performs. At General Electric, several men share the responsibility of predicting those effects before the turbine is built. One of them is 29-year-old E. F. Zwicky, Jr.

His job: analytical engineer

Here's what Ted Zwicky does. He takes a proposed mechanical design feature, describes it mathematically, breaks it down into digestible bits, modifies it, and feeds it to electronic computers. (It may take two months to set up a problem; the computers usually solve it in twenty minutes.) Then Zwicky takes the answers from the computers, translates and interprets them so they can be followed by design engineers.

23,000 college graduates at General Electric

This is a responsible job. Zwicky was ready for it in a careful program of development. Like Zwicky, each of our 23,000 college-graduate employees is given a chance to find the work he does best and to realize his full potential. For General Electric believes this: When young minds are given freedom to make progress, everybody— the individual, the company, and the country—benefits.

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