

experience in industry, may well result in a greater broadening of ideas than would be possible in a year of intra-mural work. Such a procedure will frequently help a man to realize the benefit resulting from continued study, and will suggest to him possible lines along which research may proceed with the hope of attaining results of definite value in industry. It is not uncommon for graduates of several years' standing to express a desire to return to college for a post-graduate course, but such hopes are seldom realized. It is probable that in the special cases in which experience in industry should precede research, one or two years following completion of the undergraduate course will suffice to develop some maturity of judgment which is essential in such work. In other cases, in which a research involves the application of processes of analysis and interpretation of experimental data, rather than a knowledge of some industrial process, only to be acquired properly by continued close observation of the process itself, the period of post-graduate study may well follow directly after the four years of undergraduate study.

NATURE OF WORK DONE - EQUIPMENT.

Engineering research has become so important that many of the largest industrial organizations have established their own laboratories, or have endowed laboratories in connection with the universities, where their own special problems may be investigated. Modern research frequently involves operations on a large scale, and becomes impossible in a college laboratory, designed and equipped