

In the meantime chemical and physical laboratories, occupying 20,000 square feet of floor space, have been fitted up in a temporary building. These laboratories have enabled the Council to organize the nucleus of a scientific staff and to undertake research on a number of the more pressing problems. In addition, the specific problems of aviation will be investigated in aeronautical research laboratories occupying about 20,000 square feet of floor space and including a 9-ft. wind tunnel, a 400-ft. towing tank and a complete engine testing plant.

The Council is continuing its previous activities in three main directions:— (a) the training of research workers; (b) the granting of financial assistance toward the prosecution of approved researches; (c) the co-ordination and stimulation of research work on problems of national importance.

Training of Research Workers.—In order to develop in Canada a corps of highly trained research men for service not only in the universities and technical schools, but also in the industries and technical departments of the Dominion and Provincial Governments, the Research Council has established three classes of scholarships which it awards under the titles of bursaries, studentships and fellowships. These awards have a value, respectively, of \$750, \$1,000 and \$1,200, and are intended to enable students who have graduated with distinction from a university to continue their post-graduate training in science. These awards are given to the best qualified applicants therefor, the minimum qualifications for a bursary being graduation with distinction from an approved university; for a studentship, one year of post-graduate research experience; and for a fellowship, clearly demonstrated ability to carry on independent research.

In addition to the above scholarships, which are tenable in Canada, the Council grants a few travelling fellowships of \$1,500 each for study abroad. These are awarded only to candidates who already possess the Ph.D. degree, or its equivalent, and who wish to pursue advanced studies under British or foreign specialists. Holders of these scholarships must agree to return to Canada at the end of the period covered by the award.

During the twelve years ended Mar. 31, 1929, the National Research Council has awarded 422 scholarships to 254 persons. These awards were held in 15 departments of science at 12 Canadian universities. Each grantee worked under the direction of a member of the staff of the university where his award was held, who had agreed to co-operate with the Council in the careful supervision of the work of the grantee.

The main purpose of the scholarships is to train men in research work, rather than to achieve valuable results as a consequence of the investigations carried out by grantees, but nevertheless some very valuable work has been carried out under these awards. The fact that 793 scientific papers, by persons holding National Research Council scholarships, have been accepted and published by prominent scientific journals in Great Britain, in the United States, and in Canada, gives some indication of the calibre of the work.

During the 12-year period 213 persons had completed their post graduate training in science under these awards. The National Research Council has therefore increased to this extent the number of research workers available for service in Canadian industries and universities or in government technical service. Twenty-five of these research workers are continuing their post-graduate studies; 62 are engaged in the teaching profession, 56 of these having received appointments to