

CALIFORNIA INSTITUTE OF TECHNOLOGY

Pasadena 4, California

TO MEMBERS OF THE AMERICAN MATHEMATICAL SOCIETY:

The California Institute of Technology invites applications from competent workers in the field of mathematical analysis for appointments in connection with the following important project.

Among the papers left by the late Professor Harry Bateman are notes, bibliographies, and partially completed manuscripts for two monumental works: one on the higher transcendental functions, particularly those arising in mathematical physics; and one on definite integrals. To carry Professor Bateman's project to completion, two separate works will be prepared:

(1) *A Guide to Mathematical Functions*. This will give a detailed account of the definition and properties of the functions most important in pure and applied mathematics, especially the hypergeometric functions and their generalizations. It will also include classifications of the functions according to their mode of definition, such as by series, by integrals, and by differential and functional equations.

(2) *A Table of Definite Integrals*. This will consist of a classification of integrals into different types both according to the functions appearing in the integrand and according to the results of the integrations. It will give, in addition to the values of the known integrals of each type, as complete references as possible and indications of the use of each type in applied mathematics.

Recognizing the great scientific importance of these two works, the Office of Naval Research is financing the recruitment of a team of mathematicians of the highest competence to complete them. The work will be carried on at the California Institute of Technology under the direction of Dr. A. Erdelyi, of the University of Edinburgh, an outstanding specialist in the field of mathematical analysis. Five full-time research workers are needed. Of these, three should be mature mathematicians who have themselves contributed to the field and are thoroughly acquainted with its literature. The other two may be younger men who have had sufficient mathematical training to be able to carry out the required research under direction.

Work will begin immediately and will continue for an estimated three years. The salaries paid will depend upon the applicants' qualifications, and will in all cases be sufficient so that no financial sacrifices will be incurred in accepting appointment. Travelling expenses to Pasadena and return will be paid, as well as any travelling expenses necessitated by the work.

Applications should be addressed to the Dean of the Faculty, California Institute of Technology, Pasadena 4, California.