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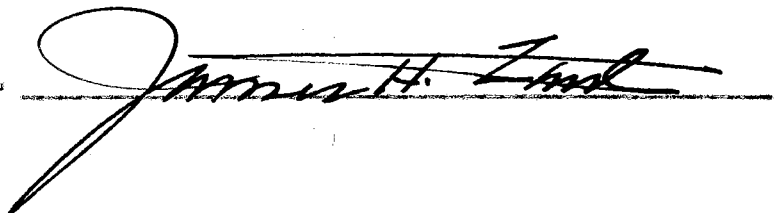
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Scope of Study: This report is confined to the industrially sponsored scholarships that are available to high school graduates. Emphasis is mainly on those scholarships which are awarded on the bases of the student's scholastic standing and need without limitations as to course of study to be followed or employment of parents. Contained in this report is information regarding the financial value, the qualifications of applicants and procedures to follow in making application for a few outstanding scholarships as well as references as to where additional information may be obtained in regard to other scholarship programs available to high school graduates throughout the United States. The majority of the information used in this report was obtained directly from the companies and organizations contacted.

Findings and Conclusions: The number of industrially sponsored scholarships available to high school graduates is increasing annually. This has been brought about mainly through the realization by heads of industries that college trained personnel is essential for the further growth and development of their particular enterprise. Many companies are turning the selection of scholarship recipients over to organizations which specialize in the conducting of testing programs for the selection of scholarship recipients. The most direct method of obtaining information as to what scholarship programs are available to high school graduates may be obtained by writing to the different industries located primarily in the area in which the high school is located.

ADVISER'S APPROVAL



A REPORT ON THE INDUSTRIALLY SPONSORED  
SCHOLARSHIPS AVAILABLE TO HIGH  
SCHOOL GRADUATES

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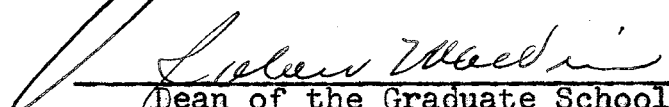
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SCHOOL GRADUATES

Report Approved:

  
Report Adviser

  
Dean of the Graduate School

## PREFACE

The preparation of this report on the industrially sponsored scholarships available to high school graduates has developed out of my past experience as a teacher in a small high school in which a counselor was not employed. I was confronted from time to time with the problem of advising students as to their future plans. I have felt in many of these instances that I would have been better qualified to give assistance had I had a more complete knowledge of the available scholarships as well as a better understanding of the procedure that should be followed in making an application for a scholarship.

Realizing the scope of this problem, I have limited my study to industrially sponsored scholarships because I felt that I knew the least about the scholarships available in this area.

I wish to express my appreciation to the different companies and organizations who have provided me with information in regard to the scholarship programs they sponsor as well as to Dr. James H. Zant for his guidance and constructive criticism in the preparation of this report.

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## CHAPTER I

### INTRODUCTION

The primary purpose in the preparation of this report is to bring together a concise and fairly complete source of information on the industrially sponsored scholarships that are available to high school graduates. This will be accomplished by:

- (1) Stating the important facts about scholarships in general with which high school students, interested in applying for a scholarship, should become familiar before making the actual application.
- (2) Giving information in regard to qualifications and procedures to follow in applying for a scholarship.
- (3) Listing and giving information about a few outstanding industrially sponsored scholarship programs.
- (4) Providing sources as to where additional information may be obtained in regard to other non-collegiate scholarships available to high school graduates throughout the United States.

The Educational Testing Service with offices in Los Angeles, California and Princeton, New Jersey has prepared

a listing of the various non-collegiate scholarship programs using their sponsored scholarship service.<sup>1</sup> This consists primarily of a testing service, which can be used as a basis for the selection of scholarship recipients by the various companies and organizations using their services. Many of the companies using this service give scholarships covering mainly tuition and the only ones eligible to apply are sons and daughters of employees of that specific company. Since this source of scholarships is rather limited, unless you are in an area that is highly industrialized, it is not considered to any great extent in this report.

The information used in this report, as to what scholarships are available, was obtained directly from the various companies and organizations sponsoring scholarship programs. The companies and organizations contacted were those sponsoring scholarships which are not limited to sons and daughters of employees and those located primarily in the middle-west. It would be impossible in a report such as this one to include information on all the industrially sponsored scholarships that are available to high school graduates. It is hoped that the selected group given will aid anyone interested in applying for a scholarship, or will be of assistance to anyone concerned with

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<sup>1</sup>Sponsored Scholarship Program Summaries 1957-1958  
(Educational Testing Service, 20 Nassau St., Princeton,  
New Jersey, 1957).

advising a student on applying for a scholarship which he  
may be qualified to receive.



## CHAPTER II

### INDUSTRIALLY SPONSORED SCHOLARSHIPS-IMPORTANCE, AVAILABILITY AND APPLICATION

The findings of various studies, conducted primarily by government agencies, emphasize the fact that the United States is losing a large percentage of its most valuable human resources each year in the form of capable high school graduates who do not continue their education. Even though the total number of college graduates is increasing, fewer than one-half of the upper twenty-five percent and only six out of ten of the top five percent of high school graduates are obtaining the higher education needed for full development of their potential usefulness to society.<sup>1</sup>

The booming population of this country along with the huge defense requirements and increasingly complex technology required in many areas are demanding more and better engineers, executives, scientists and teachers. To increase the supply of trained personnel in these professions, more of them must be educated at the college level. This can only be done by decreasing the loss of the unusually

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<sup>1</sup>Charles A. Quattlebaum, Federal Aid to Students for Higher Education (United States Printing Office, Washington D. C., 1956), p. 73.

talented students between high school and college.

It has been varified by the studies mentioned earlier in this report that this lose of talented students is due primarily to lack of finances with which to continue their education. This is because a large percentage of these superior students come from families with moderate incomes.<sup>2</sup> Because of increasing living expenses and tuition cost, families in this income group are unable to finance a college education for their children.

In comparision to the number of talented students that are deserving of scholarships, the number of scholarships available is quite small at the present time. There is a possibility that this situation will change in the near future with the increased government interest in the promotion of higher education, particularly in the field of science. Even though the number of scholarships available each year is increasing, it is doubtful that the number available will ever equal the demand and need. Therefore, the qualifications and training of the applicants will continue to play an important part in the selection of scholarship recipients.

Any high school student who shows promise as an outstanding student and has the possibility of needing financial assistance to continue his education past high school, should be encouraged as early as his freshman year in high

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<sup>2</sup>Ibid., p. 37.

school to start meeting the basic qualifications to become a scholarship recipient. These requirements are: at least a "B" average in his four years of high school work, rank in the upper fifth of his class, have an interest in at least two or more extra-curricular activities, have financial backing of around five-hundred dollars plus some cause for financial need and show an intention to pursue a profitable and deserving field of study.<sup>3</sup>

Up to date information as to what scholarships are available can be obtained by writing directly to the different companies or organizations and requesting information as to whether they sponsor scholarships which are available to high school graduates, and if so, how to go about applying for them. The different companies will be more than willing to supply such information or will refer the request to the organization that has charge of the administration of their scholarship program. The bibliography given at the end of this report could also serve as a good supplementary source of information in regard to industrially sponsored scholarships available to high school graduates.

The actual application for a specific scholarship should be made in the first month of the student's senior year so that any additional requirements such as the

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<sup>3</sup>George Adams, How to Pay For That College Education and Find the Most Suitable College (Harlan Publication, Green lawn, New York, 1956), p. 179.

taking of qualifying test, which in most cases are given in October, may be met. Also, because most of the winners are announced in April or early May, waiting until the second semester to apply will not provide ample time for the request to be considered properly.

Another important factor to keep in mind when applying for a scholarship is that the chances of receiving a specific scholarship is very slim. Therefore, working toward meeting the requirements of two or more scholarships and applying for more than one will greatly increase the chances of becoming a scholarship recipient.

CHAPTER III  
OUTSTANDING INDUSTRIALLY SPONSORED  
SCHOLARSHIP PROGRAMS

National Merit Scholarship  
Corporation

One of the most outstanding and fastest growing industrially sponsored scholarship programs in the United States is that carried on by the National Merit Scholarship Corporation. This corporation is an independent, non-profit organization which was established and is maintained by grants from the Ford Foundation and the Carnegie Corporation of New York. Its purpose is to devise and administer a nation wide system of scholarships for higher education. The program carried out by the National Merit Scholarship corporation each year since 1955 is designed to perform two functions, one is to discover and make a college education possible for the most talented high school graduates regardless of financial means and second to make it easier for business enterprises to sponsor scholarships.<sup>1</sup>

To perform its first function, the National Merit

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<sup>1</sup>National Scholarships From American Business (National Merit Scholarship Corporation, 1580 Sherman Avenue, Evanston, Illinois, 1957), p. 2.

Scholarship Corporation sponsors the "Scholarship Qualifying Test" each year in October. The top five percent of the senior class in a public, private, or parochial high school may take the test free of charge and any one else in the senior class may also take the test by paying a nominal fee. On the bases of the scores made on this test, a group of 7,500 seniors - the highest scores in each state, prorated by population - are advanced to the semifinals. In January the semifinalists are given the supervised Scholastic Aptitude Test of the College Entrance Examination Board. Those passing this test are considered to be fully qualified to receive a Merit Scholarship.<sup>2</sup>

The final selection of the scholarship recipients are made by the Merit Scholar Selection Committee on the bases of leadership, citizenship, grades, and extra-curricular activities of each finalist as well as his test scores. Special committees from the companies sponsoring scholarships may make their own selections, as well, by applying their own special criterias such as residence, career intentions, employment of parents, etc. Since the scholarships under this program, which are sponsored by grants from the Ford Foundation are completely without special restrictions such as those mentioned above, any student passing the Scholastic Aptitude Test has a chance to win. Financial need is not considered as a criterion in the

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<sup>2</sup>Ibid., p. 4.

selection of recipients and no information is gathered as to race or religion. The winners are usually announced the first part of May. Each award is for a period of four years. The recipient of a Merit Scholarship receives a stipend based upon his individual need, with the amount ranging upward from a minimum of \$100 to a maximum of \$2,000 annually. A grant is also made to the college or university attended by the recipient.<sup>3</sup>

The National Merit Scholarship Corporation's second function of making it easier for business enterprises to sponsor scholarships is accomplished through a well developed scholarship service which makes it possible for any company or organization to take advantage of the testing program and scholarship recipient selection procedure carried out by the corporation. Any scholarship awarded through the Merit Scholarship Program, that is sponsored by a given company or organization, is identified by that company's or organization's name as well as being termed a Merit Scholarship.<sup>4</sup>

For each new company or organization sponsored scholarship awarded annually, a National Merit Scholarship sponsored by a grant set aside by the Ford Foundation is also awarded. This then provides the program with a double rate of growth. There were 556 Merit Scholarships awarded in

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<sup>3</sup>Ibid., p. 4.

<sup>4</sup>Ibid., pp. 2-3.

1956 and 836 additional awards in 1957. The indications are that an even larger additional number will be awarded in 1958.<sup>5</sup>

### Westinghouse Sponsored Scholarships

The Westinghouse Electric Corporation sponsors three different scholarship programs which are open to nation wide competition. These are the Science Talent Search, George Westinghouse Scholarships at Carnegie Institute of Technology and the 4-H Club electric program.<sup>6</sup>

Scholarship awards are made by the Westinghouse Electric Corporation to the winners in the annual Science Talent Search conducted by the Science Clubs of America. Any senior in a public, private, or parochial secondary school in the continental United States who will be able to meet the college entrance requirements by October first of the year in which the awards are made, and who has not competed before in the Science Talent Search is eligible to compete. There are forty scholarships awarded each year with the top five students receiving \$7,500, \$6,000, \$5,000, \$4,000 and \$3,000 in that order. The remaining 35 finalists receive scholarships valued at \$250 each. These scholarships must be applied toward a course in science or engineering at any approved, degree-granting institution of higher education

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<sup>5</sup>Ibid., p. 3.

<sup>6</sup>Scholarship Opportunities (Westinghouse Electric Corporation, Education Department, East Pittsburgh, Penn., 1957).



chosen by the winner.<sup>7</sup>

Ten scholarships valued at \$3650 each are also sponsored by the Westinghouse Education Foundation. This program is administered by the Carnegie Institute of Technology and is open to boys in engineering, chemistry, mathematics, industrial management or physics at the Carnegie Institute of Technology. Any senior boy in the top ten percent of his class in a public, private or parochial secondary school in the continental United States and who will be able to meet the entrance requirements of the Carnegie Institute of Technology upon graduation from high school is eligible to compete for a George Westinghouse Scholarship. Selection of recipients is based upon the College Entrance Examination Board test in scholastic aptitude, English, composition, advanced mathematics and either chemistry or physics plus achievement in high school including scholastic standing and leadership as well as a personal interview.<sup>8</sup>

Scholarship awards for 4-H Club boys and girls performing outstanding work in the 4-H electric program are also sponsored by the Westinghouse Educational Foundation. Any boy or girl in the continental United States who is a 4-H Club member working under the supervision of the Agricultural Extension Service and is between the ages of 14 and 21 years, with three years of 4-H Club work including the

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<sup>7</sup>Ibid.

<sup>8</sup>Ibid.

current year, may compete. The winners are selected on the basis of their general 4-H Club record and their 4-H electric program record. Six \$400 college scholarships are awarded annually. These may be applied toward a plan of study at any State Agricultural College or other educational institution of higher learning selected by the recipient of the scholarship.<sup>9</sup>

#### General Motor's Scholarship Program

General Motors under their national scholarship plan award each year to outstanding high school graduates one hundred four-year scholarships ranging in value from \$200 to \$2,000 annually, depending upon the financial need of the student. Of the one hundred scholarships, at least one award is made in each state, the District of Columbia, Alaska, Hawaii and Puerto Rico providing a candidate has qualified from each of these places. Selection is based upon scores made on the Scholastic Aptitude Test which every applicant must take plus his secondary school record and extra-curricular activities in which he has participated. There are no restrictions as to the field of study to be followed and no obligation to work for General Motors either during the summer vacations or after graduation from college.<sup>10</sup>

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<sup>9</sup>Ibid.

<sup>10</sup>Opening the Door to Opportunity (General Motors Corporation, Detroit 2, Michigan, 1957), pp. 14-19.

General Motors also sponsors another scholarship program called the College Plan. Under the College Plan, three hundred four-year scholarships are awarded annually to entering freshman by 110 private and 68 public institutions in the 48 states and the District of Columbia. The participating institutions have full discretion in the awarding of the scholarships. There is no limitations as to the plan of study to be followed and the awards are available to any qualified young man or woman who is a citizen of the United States. The value of each scholarship ranges from \$200 to \$2,000 per year, depending upon the individual's financial need. Applications for scholarships under this program should be made directly to the registrar of the college concerned. A complete list of the colleges participating in this program may be obtained by writing to the General Motors Corporation, Detroit 2, Michigan.<sup>11</sup>

#### Alfred P. Sloan National Scholarships

Each year the Alfred P. Sloan Foundation, Inc. in cooperation with 26 private colleges and state supported institutions award 97 scholarships annually to outstanding male high school graduates. The awards range in value from \$200 to \$2,000 annually, depending upon the needs of the applicant. All applications must be made directly to

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<sup>11</sup>Ibid., pp. 6-7.

the associated institutions which have complete responsibility for the selection of the actual recipients. Selection is based upon the applicant's initiative, personal integrity, and his capacity for assuming and discharging responsibilities satisfactorily. Information as to the colleges and universities taking part in this program may be obtained by writing the Alfred P. Sloan Foundation, Inc., 630 Fifth Avenue, New York 20, New York.<sup>12</sup>

Union Carbide Corporation  
Sponsored Scholarships

The Union Carbide Corporation through several colleges, technological institutions and universities throughout the United States sponsor a number of scholarships which provide the complete cost of tuition for a full four-year program plus a reasonable allowance for necessary books and fees. Any graduate of a high school in the United States is eligible to apply for a Union Carbide Scholarship. Applicants must apply directly to the colleges participating in this program. A complete list of the participating institutions may be obtained by writing to the Union Carbide Educational Fund, 30 East 42nd. St., New York 17, New York. Selection of recipients is based upon the scholastic standing, personal reputation, career choice and financial need. No

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<sup>12</sup>Alfred P. Sloan National Scholarships (Alfred P. Sloan Foundation, Inc., 630 Fifth Avenue, New York 20, New York, 1957).

competitive examinations are required to qualify for a scholarship under this program.<sup>13</sup>

#### Other Scholarship Programs With Various Limiting Factors

The American Institute of Steel Construction sponsors a scholarship program which makes available annually ten \$1,000 scholarships to graduating high school seniors who agree to study toward a degree in Civil or Architectural Engineering. The applicants must also agree to attend one of the 131 accredited colleges taking part in the program. A listing of these colleges may be obtained by writing the Committee for Education, American Institute of Steel Construction, Inc., 101 Park Avenue, New York 17, New York. Selection of recipients is based upon the applicant's secondary school record, financial need, an essay prepared by the applicant and the contestant's scores on the College Entrance Examination Board tests.<sup>14</sup>

Each year three four-year scholarships are awarded to graduating high school seniors in the area served by the Iowa-Illinois Gas and Electric Company of Davenport, Iowa. The awards vary from \$200 to \$2,000 annually depending upon the financial need of the recipient. Selection is based

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<sup>13</sup>Union Carbide Scholarships (Union Carbide Educational Fund, 30 East 42nd. St., New York 17, New York, 1957).

<sup>14</sup>AISC Scholarship Competition 1958 (American Institute of Steel Construction, Inc., 101 Park Avenue, New York 17, New York, 1957).

upon the scores made on the Scholarship Qualifying Test, the Scholastic Aptitude Test and three achievement test of the students choice as well as the applicant's high school transcript, a biographical questionnaire and a report from the student's principal.<sup>15</sup>

Any high school senior residing in the metropolitan area of Kansas City, Missouri or Kansas City, Kansas who is interested in becoming a professional engineer is eligible to apply for a scholarship sponsored by the Engineer's Club of Kansas City. Selection of recipients is based upon financial need, scholastic standing and results obtained on certain aptitude tests. The value of each scholarship ranges from \$200 to \$1,200 depending upon the financial need of the recipient. The number of awards made each year varies. The awards may be applied toward a course in engineering at any accredited engineering school in the United States.<sup>16</sup>

The Des Moines Register and Tribune of Des Moines, Iowa offers each year sixteen scholarships valued at \$300 each to their carrier salesmen. Any carrier is eligible for one of these awards upon completion of any grade from

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<sup>15</sup>Iowa-Illinois Gas and Electric Company Scholarship Program, Bulletin of Information for Candidates (Iowa-Illinois Gas and Electric Company, Davenport, Iowa, 1957), pp. 1-10.

<sup>16</sup>Your Part in the Training Program for Tomorrow's Engineers (The Engineers Club of Kansas City, 4706 Broadway, Kansas City 12, Missouri, 1956), pp. 2-5.

the 9th through the 12th.<sup>17</sup>

The most restricted form of scholarship program is that in which the recipients are restricted to sons and daughters of employees of a specific company. The following is a list of a few companies sponsoring this type of program:<sup>18</sup>

Western Union Telegraph Co., New York, N. Y.

Ford Motor Co., Dearborn, Michigan

Pullman Co., Chicago, Illinois

Armco Steel Corporation, Middletown, Ohio

Maytag Co., Newton, Iowa

Phillips Petroleum Co., Bartlesville, Okla.

This is by no means a complete list, but it does serve as an indication that any company is a potential source of scholarships.

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<sup>17</sup>Sponsored Scholarship Program Summaries 1957-1958  
(Educational Testing Service, 20 Nassau St., Princeton,  
New Jersey, 1957), p. 8.

Ibid., pp. 4-29.

## CHAPTER IV

### CONCLUSION

This report, in which a representative group of industrially sponsored scholarships available to high school graduates has been presented and discussed, is not meant to be considered as a complete listing of industrially sponsored scholarships which are available to high school graduates. Most of the scholarships discussed in this report are outstanding from the financial standpoint and are open for competition to the greatest number of high school students with emphasis on the ability of the applicant.

The number of industrially sponsored scholarships available each year to high school graduates is increasing. This is due primarily to the realization by heads of industries that higher education is necessary for the growth and further development of their particular enterprise. With this purpose in mind, the selection of scholarship recipients in most cases is based upon the interests, abilities and scholastic standing of the applicant. This applies not only to scholarships which are not restricted to a limited group of applicants by also to those which are restricted to sons and daughters of employees.

To obtain the most up to date information in regard



to industrially sponsored scholarships which are available to high school graduates, one should write to the Educational Testing Service or to the National Merit Scholarship Corporation whose addresses may be found on pages 2 and 7 respectively of this report. This will provide the latest information about the industries using the services of these organizations. If a possible scholarship applicant is the son or daughter of an employee of a given company, information in regard to the scholarship program sponsored by that company, if any, may be obtained by writing that specific company.

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