

**North Suburban Chapter, Illinois Society of Professional Engineers
2021 Scholarship Application**

Our chapter will be awarding 2 - \$1000 scholarships this coming spring.

Eligibility Requirements:

1. Be a High School Senior.
2. Be a United States Citizen at time of application.
3. Have a minimum of 3.5 grade point average (out of 4.0).
4. Attain a minimum test score of:

Scholastic Aptitude Test (SAT) of 600 Math, 500 Verbal or
American College Testing Program (ACT) of 29 Math, 25 Verbal
5. Enroll in an engineering program at a university/college that has been accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET-EAC).
6. Live in our Chapter area – in general, North Suburban Cook County, outside of Chicago, north of North Avenue.

Assemble the completed application according to the checklist on page 5. Mail it to:

Dan E. Monnier, P.E.
8857 Kilpatrick Avenue
Skokie, Ill. 60076-1825

Applications must be received by **March 1st, 2021**.

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Name: _____

Extracurricular Activities *List on/off campus extracurricular activities during high school, including any position held, such as President, Secretary, etc. List engineering related activities and work experience first. Use additional sheets, if necessary.*

Month/Year to Month/Year	Activity	Most Significant Contribution

WORK EXPERIENCE: *List Employment during high school and summer break*

Month/Year to Month/Year	Place of Employment Name of Supervisor/Ph. No	Job Duties/Hours Worked

HONORS AND SCHOLARSHIPS: *May or May not be academic-related*

Month/Year	Sponsor	Name of Award	Reason for Receipt of Award

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FINANCIAL INFORMATION: *How do you plan to finance your education and living expenses for your freshman year?*

Estimated Cost	Savings	Grants	Scholarships	Family Support	Loans you are <i>Legally required</i> To repay
\$	%	%	%	%	%

Are there any family/financial responsibilities that we should consider when reviewing your application?

Do the following **Problem:**

In an electric power system, there are volts, amps, watts, VARs and a parameter called power factor. Explain Power Factor and why it is important. What are the technical and economic impacts? Who cares?

Suppose you had a plastic molding plant with a power factor of 0.7. The power company penalizes you for power factors less than 0.9. What would you do to improve the power factor above 0.9?

Tip:

Start work early and do a little bit each week.

Scholarship winners will be able to discuss concepts further with our members.

Include the following in your Scholarship Application. Do not use a report binder

1. This completed Application
2. Recommendations of 2 Teachers (at least 1 by a Math or Science teacher)
3. Employer Recommendation (optional)
4. Solution to the Problem, no more than 3 typed pages.

Name _____

5. Official Transcripts (must be in sealed envelope)

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6. SAT/ACT scores. Attach official score sheet

REQUIRED INFORMATION: (Signatures) Applications without required signatures will be disqualified.

Scholarship Applicant:

I authorize my school officials to give information about my academic records to ISPE, North Suburban Chapter.

Yes _____ No _____

To the best of my knowledge, the information presented in this application is complete and true.

(Applicant's Signature) (Date)

Principal/Guidance Councilor Certification:

I certify that the academic information presented in this application is complete and true and that the applicant meets the stated eligibility requirements.

I certify that the applicant is a U.S. citizen.

Signature: _____

Printed Name: _____

Title: _____

High School: _____

Phone #: (____) _____ - _____

Date: _____