SONS of NORWAY FOUNDATION

Nancy Lorraine Jensen Memorial Scholarship

Our Mission

The mission of the Sons of Norway Foundation is to celebrate Nordic culture and heritage through scholarships and grants to our members and communities.

Overview

The Nancy Lorraine Jensen Memorial Scholarship Fund was established by Dr. and Mrs. Arthur S. Jensen in memory of their remarkable daughter. By age 35, when she died suddenly, Nancy had already distinguished herself as an outstanding chemical engineer whose work resulted in important advances within the field of weather satellite photography. It is the wish of Dr. and Mrs. Jensen to encourage young women to enter the field of science and engineering by offering scholarships in Nancy's memory.

Award Amount

The award will be **no less than 50% for one term** and **no more than 100% of the tuition for one year.** The recipient will be asked to provide verification of the amount of tuition charged to her by the institution.

Eligibility

- **Deadline –** Submission of the completed application and all required elements is **January 15th**
- **Country of Study –** United States
- **Age –** 17-35 as of the date of application
- **College Credit Needed –** Yes, one term
- **Proof of Enrollment –** No
- **Level of Study –** Undergraduate
- **Field of Study –** Accepted as a major in chemistry, physics, or engineering (chemical, electrical or mechanical)
- **SON Membership Requirement –** Female applicants who are current members of Sons of Norway or daughters or granddaughters of a current member with membership in effect for at least three years prior to the date on the application.
- **Length of Award –** 1 year
- **Applicant Citizenship –** United States
- **Other –** Female applicants only; must have SAT score of at least 1200 with a math score of 600 or better or an ACT score of at least 26.

*Note – The Sons of Norway Foundation does not provide financial assistance for current or previous academic years room & board, travel, etc.

Criteria

- A short autobiography, 150 words or less.
- An essay of 500 words or less addressing each of the following key points:
  - » Describe how this scholarship will help you further your career goals.
  - » Share why you have chosen your area of study what you hope to achieve in your life through your future career.
  - » Explain your academic potential and evidence of your ability to succeed.

    - State how your program/course of study or future plans align with at least one of the following core values of the Foundation:
        1. Building Nordic culture and heritage for the future
        2. Committing to life-long learning and service
        3. Demonstrating compassion for our members in need
        4. Sustaining the link to contemporary Norway
        5. Fostering a community of generosity
    - Describe your involvement in Sons of Norway and how it has shaped who you are today.
    - Explain how you will share this experience with Sons of Norway or wider audiences.
- Academic potential:
    - Upload your SAT or ACT scores.
    - Upload your latest completed term's transcripts. *Please note, "official" transcripts may be required once an applicant is tentatively selected.*
- Financial need: Be prepared to include the amount you are able to pay for post-secondary education/training in the online application.
- Letters of Recommendation:
    - One letter must be from the department chair or advisor verifying the candidate's declared major is in the area of chemistry, physics or in chemical, electrical or mechanical engineering.
    - The other should give specific evidence of good character, eagerness, earnestness and ambition in the field of science and/or engineering.

Application Process

Applications are only accepted via our online portal at https://www.sofn.com/foundation/scholarships/.

Award Selection

Final selection of the scholarship winners will be made by a scholarship committee appointed by the Sons of Norway Foundation. Scoring is dependent on the use of complete sentences, proper grammar, inclusion of information outlined in the essay requirements listed above and financial need.

Candidates may only receive two Sons of Norway scholarships in a five-year period.

Scholarship Notification and Payment

Notification of an award will be made by email or phone within 14 weeks of the application deadline.

Scholarship funding is made payable to the academic institution listed on the application and mailed to the academic institution. If awarded, the recipient will be required to complete information including his or her student ID number for the institution and a current mailing address.

Recipient Requirements

Scholarship recipients are asked to grant permission to use their photo and name in *Viking* magazine, the Foundation's annual report and other scholarship promotional materials. They are also expected to give a presentation, including photos, at their Sons of Norway lodge or one close to them to explain how this scholarship is helping them achieve their educational dreams. We will provide you with a form for a lodge officer to sign after your presentation.

Revision Policy

The Sons of Norway Foundation reserves the right to modify requirements. All participants are encouraged to check the Foundation website, https://www.sofn.com/foundation/scholarships/ for the most current information.

Questions

Questions may be directed to the Foundation at scholarship@sofn.com.

Thank you for your interest in applying for a Sons of Norway Foundation scholarship.

Nancy Lorraine Jensen 1959-1994

Nancy Lorraine Jensen, an Aerospace Engineer/Chemist with the National Aeronautics and Space Administration at the Goddard Space Flight Center, Greenbelt, MD, was born in Baltimore, MD on March 23, 1959, where she graduated from the Bryn Mawr School. She received her Bachelor of Science degree in chemistry from the University of Maryland, College Park in 1987. She did graduate work at the University of Maryland, Baltimore County. Her field of interest has been solid state surface chemistry. Her studies of processes for forming the patina on bronze played a part in the restoration of the Statue of Liberty.

Before joining NASA/Goddard in 1990, she worked for the University of Maryland and for the W.R.Grace Co. One of her projects at NASA/Goddard involved devising means for blackening the inside surfaces of a beryllium spectrophotometer without adding any weight to it yet absorbing all wavelengths of light from the ultraviolet through the visible and on into the far infrared. This instrument was launched on the WIND satellite in late 1994 to study the solar wind at its shock wave about one million miles from the Earth. She likewise distinguished herself by solving both a complex beryllium mirror chemical coating problem and also the mechanical design of both the mirror and its coating for the Geostationary Operational Environmental Satellite (GOES) project. This project required much dedication, careful research and considerable oversight at a contractor's facility to complete the task successfully. As a result of her work the first of the GOES new generation of weather satellites was completed and launched April 13th, 1994. The first photograph from this satellite was received on earth on May 9, 1994. Now all weather satellite photographs come to us through Nancy's mirrors; we all see them on the television weather programs.

Nancy initiated work on an infrared coating problem for the Composite Infrared Spectrometer Instrument (CIRS). She was also heavily involved with the new Composites Group at Goddard in solving materials problems and writing new standard process specifications. She was a pioneer in the formation of the Goddard Chemical Safety Subcommittee, serving as its first chairperson and largely responsible for the development of the recently approved Goddard Chemical Hygiene Plan.

The more prestigious awards she received while at NASA include the Goddard Exceptional Achievement Award (1994) for her work on Electroless Nickel Plating of the beryllium mirrors for GOES, a bronze medal (1994) for her contributions to the success of GOES, the Goddard Safety Award (1994) for her role as chairperson of the Chemical Safety Subcommittee, a GOES Group Achievement Award (1993) for successful development of the GOES Tri-cell Scan Mirror, and six Special Acts Awards (1991, 1992 and four in 1993).

Nancy was a member of the American Chemical Society, the SPIE (The International Society for Optical Engineering), the Materials Research Society, and the American Electroplaters Society.

Nancy died unexpectedly on July 29, 1994 at her home in Columbia, MD .