

## WHO WAS ROBERT NOYCE?



Robert Norton Noyce (December 12, 1927-June 3, 1990), nicknamed, "the Mayor of Silicon Valley," co-founded Fairchild Semiconductor in 1957 and

Intel in 1968. He is also credited (along with Jack Kilby) with the invention of the integrated circuit or microchip. He treated employees as family. He rewarded and encouraged teamwork. His follow-your-bliss management style set the tone for many Valley success stories.

Noyce graduated Phi Beta Kappa with a B.A. in physics and mathematics from Grinnell College in 1949 and a Ph.D. in physics from Massachusetts Institute of Technology (MIT) in 1953. He studied the first transistors, which were developed in the Bell Laboratories in a Grinnell College classroom. After graduating from MIT, he accepted his first job as a research engineer at the Philco Corporation in Philadelphia, PA.

In Noyce's final interview, he was asked what he would do if he were "emperor" of the United States. His response was that he would, among other things, "make sure we are preparing our next generation to flourish in a high-tech age. And that means education of the lowest and the poorest, as well as at the graduate school level."

The Robert Noyce Foundation was founded in 1991 by his family. The foundation is dedicated to improving public education in mathematics and sciences in grades K-12.

## TEACHING TERMS & CONDITIONS

Accepting the Noyce Scholarship award requires the recipient to commit to teaching in a high-need school district for two years for each year of Noyce Program support. If the teaching obligation is not met, the scholarship must be repaid with interest.

## PROGRAM PARTNERSHIP

The Noyce Scholarship Program is a collaborative partnership between the California Teach-Science and Mathematics Initiative (CalTeach-SMI) and the Graduate School of Education (GSOE) at UCR and Val Verde Unified School District (VVUSD). Together these units provide resources and mentoring for future mathematics and science teachers by networking with STEM educators, providing a pipeline into a teaching credential program's academic and field experiences.



## CONTACT US

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# ROBERT NOYCE SCHOLARSHIP PROGRAM

*Supporting Future STEM Educators*



UNIVERSITY OF CALIFORNIA  
**UCRIVERSIDE**

## NOYCE SCHOLARSHIP PROGRAM

The NSF-funded Robert Noyce Scholarship Program was especially designed to encourage and support talented STEM (science, technology, engineering, and mathematics) majors to become future middle or high school science/mathematics educators.

### PRIMARY OBJECTIVES

- Recruit qualified undergraduates majoring in mathematics, science, or engineering disciplines (seniors) AND SMI alumni, single-subject credential program students dedicated to teaching middle or high school mathematics or sciences in a high-need school district.
- Provide support for strengthening content and pedagogical knowledge via intense classroom experiences, mentoring and professional activities.
- Facilitate connections with public school districts to secure internships/teaching positions during and after completion of a teaching credential program.

## FINANCIAL SCHOLARSHIP:

*(for tuition and fees, effective 2020 - 2021)*

Undergraduate Seniors: up to \$14,501  
Credential Candidates: up to \$16,131

### OTHER BENEFITS

- Expand networking capabilities
- Gain classroom experiences
- Resume building
- Potential to secure permanent teaching position in Val Verde Unified School District

APPLICATION AND DEADLINE @  
SMI.UCR.EDU



## ELIGIBILITY

**Major:** Declared major or earned degree in either the College of Natural Agricultural Sciences (CNAS) or the Bourns College of Engineering (BCOE)

**Affiliation:** CalTeach-SMI Student

**Class Level Standing:** UCR Undergraduate Senior, or UCR Single-Subject Science or Mathematics Teaching Credential Candidate with a STEM degree

**Good Academic Standing** with 3.0 or above cumulative GPA

**Early (monitored) field experience course completion:** EDUC 3 and EDUC 4, or equivalent

**Early methods course completion:** EDUC 104 (math) OR EDUC 105 (science)

**Early pedagogical course completion** (special note: undergraduate seniors only need to complete 2 from the list): EDUC 110, EDUC 132 (formerly EDUC 116), EDUC 139, EDUC 149 (formerly EDUC 109), EDUC 174, EDUC 179A (formerly EDUC 175)

**Teaching Credential Potential:** Demonstrate eligibility (credential scholars) or progress toward meeting eligibility (undergraduate senior scholars) for UCR Teaching Credential Program

**Citizenship:** U.S. Citizen, U.S. National, or Permanent Resident Alien

**Completion of Exams:** CBEST exam, and CSET science/mathematics (seniors: one subtest; credential candidates: foundation level)

**Teacher Commitment:** Demonstrate commitment to teach in low performing, high poverty/high ELL school districts

**Free Application for Federal Student Aid (FAFSA):** Complete and submit the form by its deadline and instructions

**Special Consideration:** Priority given to students in physical science majors and/or students who are English/Spanish bilingual

## WHAT IS A HIGH-NEED SCHOOL DISTRICT?

The NSF defines a school district as high-need if it meets at least one of the following criteria:

- It has at least one school in which 50% or more of the enrolled students are eligible for participation in free or reduced lunch program established by the Richard B. Russell National School Lunch Act (42 U.S.C.1751 et seq).
- It has at least one school in which (i) more than 34% of the academic classroom teachers at the secondary level (across all academic subjects) do not have an undergraduate degree with a major or minor in, or a graduate degree in, the academic field in which they teach the largest percentage of their classes; or (ii) more than 34% of teachers in two of the academic departments who do not have an undergraduate degree with a major or minor in, or graduate degree, in the academic field in which they teach the largest percentage of their classes.
- It has at least one school whose teacher attrition rate has been 15% or more over the last three school years.

The US Department of Education provides links to each state's department of education where you can find report cards for each school district:  
[www2.ed.gov/about/contacts/state/index.html](http://www2.ed.gov/about/contacts/state/index.html)

## SELECTION CRITERIA

- Academic merit (primary consideration)
- Potential to meet UCR teaching credential program requirements
- Personal narrative essays
- Motivation and interest to the teaching profession
- Professional references
- Commitment to teach in high-needs/ELL school districts
- Financial need (secondary consideration)

