

## 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.

*U.S. postal stamp commemorating Noyce’s invention of the Integrated Circuit*



### 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 ALPHA Center and the California Teach-Science and Mathematics Initiative (CaTEACH-SMI) at UCR. Together these two 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:

SMI Resource Center  
1315 Pierce Hall  
Riverside, CA 92501  
Website: [www.smi.ucr.edu/noyce.html](http://www.smi.ucr.edu/noyce.html)

Leslie Bushong  
*Program Director, California Teach-Science and Mathematics Initiative (CaTEACH-SMI)  
Noyce Scholarship Program*  
leslie.bushong@ucr.edu



## ROBERT NOYCE SCHOLARSHIP PROGRAM



*Supporting Future  
STEM Educators*



## What is the 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:

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

### Financial Support:

- *Scholarship:* receive up to \$12,000 per year for tuition and fees (effective 2012-13 academic year)
- *Classroom materials and/or Professional Development:* financial support is provided during scholarship award years and service-teaching years

### Other Benefits:

- Expand networking capabilities
- Gain classroom experiences
- Resume building

### Partnership School Districts:

- Moreno Valley Unified School District (MVUSD)
- Perris Union High School District (PUHSD)
- Jurupa Unified School District (JUSD)
- Fontana Unified School District (FUSD)
- Colton Joint Unified School District (CJUSD)
- San Bernardino City Unified School District (SBCUSD)
- Rialto Unified School District (RUSD)
- Val Verde Unified School District (VVUSD)

## Eligibility Requirements

- **Major:** Declared major or earned degree in either the College of Natural Agricultural Sciences (CNAS) or the Bourns College of Engineering (BCOE)
- **Class Level Standing:**  
UCR Undergraduate ( Junior or Senior)  
*OR*  
UCR Single-Subject Science or Mathematics Teaching Credential Candidate with a STEM degree
- **Academic Status:** Good Standing
- **GPA:** 3.0 or above cumulative GPA
- **Early field Experiences:** EDUC 3 and EDUC 4 or equivalent
- **Teaching Credential Potential:** Demonstrated eligibility for UCR Teaching Credential Program
- **Citizenship:** U.S. Citizen, U.S. National, or Permanent Resident Alien
- **Completion of Exams:**  
CBEST Exam  
CSET science/mathematics - one subtest

## Application Packet & Deadline

Application packet and deadline are posted on UCR-Noyce website, [www.smi.ucr.edu/noyce.html](http://www.smi.ucr.edu/noyce.html).

## 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.
- ◇ It has at least one school in which 1) 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 2) 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.

## Selection Criteria

- ◇ Academic Merit (*primary consideration*)
- ◇ Potential to meet UCR teaching credential program requirements
- ◇ Personal narrative essays
- ◇ Letters of recommendation
- ◇ Demonstrated motivation and interest to the teaching profession
- ◇ Financial need (*secondary consideration*)

