

SF State Scholars in Computer/Electrical Engineering



The blended programs offer an accelerated route for motivated undergraduate students in Computer/Electrical Engineering to complete both their B.S. and M.S. degrees in five years. Students work directly with a faculty advisor to gain research experience and necessary skills to apply creativity, critical thinking, and technologies in developing engineering products and solutions for real-world problems.

Program Coordinators



SF Scholars Coordinator (Computer Engineering):

Dr. Xiaorong Zhang xrzhang@sfsu.edu



SF Scholars Coordinator (Electrical Engineering):

Contact us if any questions!

Dr. Hamid Mahmoodi mahmoodi@sfsu.edu

Program Value

- Getting the most out of your education: Paying undergraduate tuition for graduate-level courses. Graduate School application fee waived.
- Getting the most of your time: Students in this program pursue bachelor's and master's degrees simultaneously, enabling students to use their senior project capstone experience to be integrated with a graduate thesis/project.
- Challenging yourself: Students will become more competitive and dynamic by engaging with advanced &/or graduate-level cohort.

For more information, please visit https://engineering.sfsu.edu/sf-state-scholars-41-blended-bsms-program



Faculty Mentors





Xiaorong Zhang

Hamid Mahmoodi

Hao Jiang

Hamid **Shahnasser**



Qin



Zhuwei

David Quintero

- Research areas: embedded systems, digital design and verification, hardware security, human machine interfaces, neuromorphic computing, mobile computing, robotics
- Research supported by funding agencies including National Science Foundation, Air Force Research Laboratory, and Department of Defense
- Active collaborations among disciplines and with other institutions (e.g. UCSF, Duke) and industry (e.g. Intel, Synopsys)

Skills Offered

- Embedded Systems Design
- ASIC Design
- **Digital Design Verification**
- Mobile Computing
- Hardware Design
- Machine Learning
- **Robotics and Control**

Potential Jobs

- Embedded Systems Engineer
- **Firmware Engineer**
- Verification/Validation Engineer
- **Test Engineer**
- **Application Engineer**
- Hardware Design Engineer
- Software Engineer

Career Paths after Graduation

Our graduates work at high-tech companies or continue to pursue a Ph.D. degree at institutions such as UC campuses, Virginia Tech, and Duke

Representative companies that hire our graduates





Minimum Units required for Bachelors =128 Minimum Units required for Masters = 30



Computer Engineering Prerequisite Flow Chart





Minimum Units required for Bachelors = 12 Minimum Units required for Masters = 30

Electrical Engineering Prerequisite Flow Chart

