MASTER OF SCIENCE
QUANTUM TECHNOLOGY

Earn your MS in QT from San José State University, a joint degree by Physics and Electrical Engineering in the quantum industry hub in Silicon Valley.

HIGHLIGHTS

- Interdisciplinary and first of its kind in the U.S.
- Funded graduate fellowships and student exchange with Colorado School of Mines
- Partnering with Lawrence Livermore National Laboratory and others for hands-on experiences

WHY MS QT AT SJSU?

- Explore the growing field of Quantum Information Science and Engineering (QISE).
- Engage in an interdisciplinary program with a curriculum developed by diverse faculty and with different careers paths in mind.
- Gain hands-on and specialized experience in quantum computation, quantum sensing, quantum communication, quantum hardware, and the corresponding electronic controls.

sjsu.edu/quantum

Wondering what kind of jobs you can get with a MS QT degree?

Visit our jobs board at www.sjsu.edu/quantum/Jobs

The Quantum Economic Development Consortium lists hundreds of open industry positions in quantum software and hardware, many at the Bachelor’s and Master’s level:

https://quantumconsortium.org/quantum-jobs
Quantum Technology is a cross-disciplinary program at the intersection of quantum physics, electrical engineering, and computer science. QT students apply fundamental principles of quantum theory to formulate and solve technical problems related to how information is processed and transmitted.

**Program Entry Requirements**

- BS in a STEM discipline
- GPA of 3.0 or above
- Experience with mechanics, linear algebra, electricity and magnetism, & computer programming is preferred.

**Coursework**

**Core Courses**

- PHYS 161 Fundamentals of Quantum Information
- EE 274 Quantum Computing Architectures
- PHYS 250 Quantum Programming
- PHYS 253 Quantum Many-Body Physics

**Graduate Writing (Pick 1)**

- PHYS 200W Research & Communication in Physics
- EE 295 Technical Writing - Engineering Ethics
- PHYS 220E Graduate Optics Lab

**Electives (Pick 4)**

- EE 225 Introduction to Quantum Computing
- EE 226 Cryogenic Nanoelectronics
- PHYS 240 Computational Physics
- PHYS 208 Introduction to Electro-Optics
- PHYS 275 Solid State Physics
- And many more...

Curious to learn more? Contact Us!

For information about MS QT at SJSU, contact program director Dr. Hilary Hurst at quantum@sjsu.edu.

Wondering about graduate school at SJSU? Contact the College of Graduate Studies: grad-admissions@sjsu.edu

Apply Now: [www.calstate.edu/apply](http://www.calstate.edu/apply)