

# Workforce development in quantum information science

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Quantum Information Science (QIS) is a rapidly emerging field of study that holds immense importance for research. The Superconducting Quantum Materials and Systems Center, or SQMS, led by Fermilab, brings together national laboratories, educational institutions, and industry players to drive groundbreaking advancements in quantum computing and sensing. The technologies developed within SQMS will have far-reaching effects on both fundamental science and our daily lives. Beyond its technical objectives, the SQMS research center is dedicated to empowering the upcoming generation of quantum scientists and engineers. It offers distinctive opportunities such as internships, externships, and hands-on research experiences, engaging hundreds of students. These initiatives expose students to a diverse range of impactful careers within the expanding and innovative realm of QIS. Through these efforts, SQMS actively contributes to the growth of the quantum ecosystem while fostering the development of young talents who will shape the future of the field.

## Abstract Category

Materials Physics

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