FUNDAMENTALS

ZERO RESISTANCE
NO DISSIPATION
PERSISTENT CURRENTS
QUANTUM ENTANGLED STATES
QUANTUM TUNNELING
QUANTUM COHERENCE
QUANTUM MATERIALS
VORTEX PHASE
CRITICAL CURRENTS
CRITICAL FIELDS
MAGNETIC FLUX TRAPPING
LEVITATION

ENGINEERING
ENGINEERING

ENGINEERING

ENGINEERING

ENGINEERING

ENGINEERING

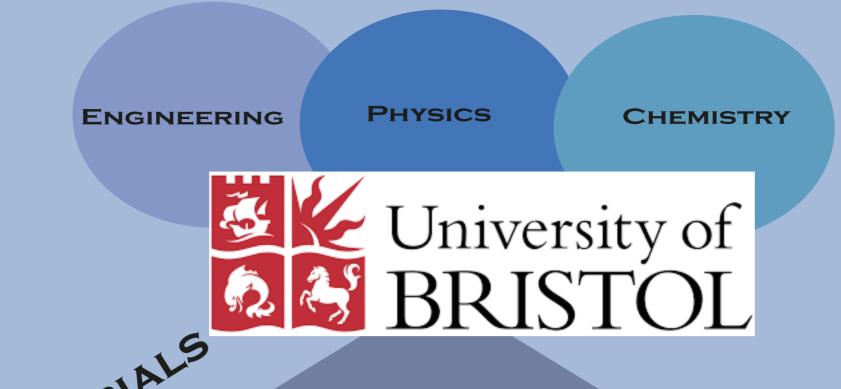
ENGINEERING

ENGINEERING

ENGINEERING

ENGINEERING

ENGINEERING



EPSRC CDT
PHD TRAINING

SUPERCONDUCTIVITY CDT

APPLICATIONS

POWER TRANSMISSION
ENERGY STORAGE
SUPERCONDUCTING CIRCUITS
SUPERCONDUCTING MAGNETS
MRI PERSISTENT MAGNETS
TOKOMAK TOROIDAL MAGNETS
WIND TURBINES
LARGE HADRON COLLIDER
TRANSPORT
QUANTUM TECHNOLOGIES
HEALTHCARE
RESEARCH



PHYSICS

SUPERCONDUCTING TECHNOLOGIES

PHD 4-YEAR STUDENSHIPS FROM OCTOBER 2025



PHYSICS

ENGINEERING

MATERIALS

TRAINING MODEL

MATERIALS

EXPERIMENTAL SKILLS
THEORETICAL SKILLS
LARGE SCALE FACILITIES

PROBLEM SOLVING
COMMUNICATION
BUSINESS
OUTREACH

CHEMISTRY

AREAS OF RESEARCH

DISCOVERY OF NOVEL SUPERCONDUCTORS
FUNDAMENTAL PROPERTIES
MATERIAL DESIGN AND MACHINE LEARNING

TESTING OF NOVEL SUPERCONDUCTORS
SUPERCONDUCTORS IN EXTREME CONDITIONS
DESIGNING SUPERCONDUCTING COILS
SUPERCONDUCTING DEVICES

SUPERCONDUCTIVITY CDT: https://superconductivity-cdt.ac.uk/

OXFORD SUPERCONDUCTIVITY: https://oxfordsuperconductivity.web.ox.ac.uk/

TO APPLY IN OXFORD: https://www.ox.ac.uk/admissions/graduate/courses/

SUPERCONDUCTIVITY-ENABLING-TRANSFORMATIVE-TECHNOLOGIES

OXFORD OPEN DAY
5 DECEMBER 2024

CDT ONLINE OPEN DAY
6 DECEMBER 2024