Updated for 2020 entry, the MSc in Mineral Resources at the University of St Andrews is a one-year postgraduate degree designed to prepare students for the challenges in resource extraction in the 21st century.

It will tackle not only the geological challenges inherent in mineral exploration targeting and estimation, but also the economic, environmental, social, and geopolitical aspects of mining: from exploration, extraction to remediation.

It provides hands-on training in both the classroom and field in the latest digital and remote sensing mapping techniques, 3D modelling software and geochemical mapping. Students gain knowledge and experience through interactions with invited guest lecturers from industry and by visiting mine sites. Knowledge is consolidated through both an industry or research focused dissertation, and through an international field course, which for 2020 entry is planned to be in South Africa.

Find out more and apply:
[www.st-andrews.ac.uk/subjects/earth-environmental-sciences/mineral-resources-msc](http://www.st-andrews.ac.uk/subjects/earth-environmental-sciences/mineral-resources-msc)
MSc in Mineral Resources
The MSc is targeted at both new graduates seeking a career in the resources industry and/or preparation for an applied PhD, but also at professional exploration geologists with several years industry experience seeking to move into an exploration strategy role.

2020 Curriculum
- High- to low-temperature overview of ore-forming processes.
- Applied digital field technologies, including a week mapping on the Scottish island of Rum.
- The future challenges in mineral exploration and the strategies to meet them: environmental, social, and geopolitical, with an emphasis on developing countries.
- Theoretical and hands-on aspects of exploration: geochemical, isotopic, and geophysical techniques.
- Resource estimation using industry-standard packages.
- Visiting lecturers & industry workshops.
- Global geodynamics & mineral systems.
- A 10,000 word dissertation underpins a research project of your choice.

Field excursion to South Africa
The keystone of the course is a two-week field trip to visit world-class mineral deposit types and associated geology in South Africa. This trip allows students to consolidate knowledge gained and gives an opportunity to see mining operations first hand.

Studying at St Andrews
A dynamic and research-intensive School, MSc students will interact with staff, postdoctoral research fellows and other postgraduate students in Earth & Environmental Sciences who study a wide range of topics across the Earth sciences.

www.st-andrews.ac.uk/earth-sciences/research

Facilities
To support the dissertation project, the School houses state-of-the-art stable and radiogenic isotope geochemistry laboratories (STAiG) for both \textit{in situ} laser and solution measurement of a range of trace elements and isotopes. Other laboratories include geobiology, rock magnetism (M^ORE), luminescence spectroscopy, SEM, X-Ray diffraction and X-Ray fluorescence.

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