

# CSIRO Internship Program



## **We are seeking applicants for Discovering Australia's Mineral Resources research program – student internships starting between July 2016 and April 2017**

CSIRO is offering a \$6000 living allowance (not covering travel) over 3 months to support outstanding students (of 3rd year undergraduate or post-graduate level) working on projects in relation to CSIRO's Discovering Australia's Mineral Resources Research Program (DAMR). A minimum of 3 internships will be provided.

### **Projects available include:**

- **Numerical benchmarking and optimisation of the mineral resources simulator REDBACK**
- **Generating synthetic geology data for minerals exploration**
- **Explaining relaxation during the pulse for surface nuclear magnetic resonance soundings**
- **Mineral exploration in the Atacama Desert (Chile) and the Albany-Fraser Region (WA): similar landscape geochemical challenges?**
- **The geochemistry of reduction spheroids in Tumblagooda Sandstone**
- **Assessing resistivity features of geological targets in regolith-dominated terrains: combining geophysical and geological datasets**
- **Geometallurgical characterisation of Ni laterites**
- **Mapping the 3D chemical framework of the world-class Kanowna Belle gold deposit via integrated mineralogical and C-S isotope data sets**
- **Impact of grain size variations on the infrared spectral signatures of pure quartz and mixtures of quartz with iron oxides, sulphides and clays**
- **2D and 3D toolkit for iron ore characterization**
- **Chemostratigraphic characterization of Australian Sedimentary Basins**
- **Induced polarization effects in airborne electromagnetic data**
- **Constraining the pressure-temperature history of the Nunasvaara graphite deposit**
- **Assimilation of dolomite by Bushveld magmas; implications for the origin of Ni-Cu-PGE mineralization and the Precambrian atmosphere**

Detailed project descriptions are available upon request.

To apply for an internship, please provide until the 27.06.2016 a brief CV and a short summary of your areas of interest for project work, including your interest in pursuing a career related to the goals of CSIRO's DAMR.

**All interns need to be registered with a University during the internship.**

Interns will be expected to write a brief report communicating their research and give an oral presentation at the completion of the internship.

***Inquiries and applications should be sent to Dr Carsten Laukamp  
(Carsten.Laukamp@csiro.au);  
Applicants will be advised of the outcome of their application within 1 month of submission.***