

Position Title	Research Associate
Classification	Level A
School/Division	School of Earth Sciences
Centre/Section	Centre for Exploration Targeting
Supervisor Title	Principal Research Fellow/Associate Professor
Supervisor Position Number	313869
Position Number	320742

Your work area

The School of Earth Sciences at The University of Western Australia undertakes diverse fundamental and applied research with recognised strengths in mineral geoscience, petroleum geoscience, geochemistry, hydrogeology and marine geoscience. The School has an international reputation in research and teaching with strong support from the mineral exploration, petroleum and groundwater industries, and well established collaborations with industry and state and federal government agencies.

The School has been recognised internationally, with Earth and Marine Science ranked 37th in the 2021 QS World University subject rankings and Excellence in Research for Australia (ERA) ratings above to well above world standard across the Earth Sciences sub disciplines. Undergraduate and postgraduate teaching programs are underpinned by research activity and expertise, and the School attracts high calibre higher degree by research students into PhD and MPhil programs.

Reporting structure

Reports to: Principal Research Fellow/Associate Professor

Your role

As the appointee you will, under general direction, determine the geometry and relative timing of structures, intrusions and related mineral paragenesis of several gold ore deposits in the West African Craton. At the camp to regional scale, the result of the deposit scale investigations will be integrated with results obtain from previous West African Exploration Initiative (WAXI) to refine the existing 4D metallogenic evolution over the craton. The timing and mineral characterisation of mineralisation will be further developed in close collaboration with Nancy University.

You will co-supervise HDR students, provide leadership within the team and initiate and maintain productive relationships with members of the WAXI research team under the direction of Senior Principal Research Fellow, Associate Professor Nicolas Thébaud.

Your key responsibilities

Assessment on the structural and metallogenic controls on mineralisation for gold within 6 deposits (research target to be defined with sponsors)

Ascertain the timing of the mineralisation with respect to structural, magmatic and metamorphic constraints

Integration and development of a regional metallogenic 4D evolution

Work with the broader WAXI team to translate the results obtain in a broader mineral system exploration targeting framework across the south West African Craton

Prepare scientific reporting and presentations for the project

Produce publications for peer-reviewed journals and attend scientific conferences disseminate results

Communicate and collaborate with the different stakeholders and participants of the WAXI research group when required

Develop new collaborations

Contribute to the supervision and training of postgraduate students

Other duties as directed

Your specific work capabilities (selection criteria)

PhD qualification in geosciences

Proven track record in ore deposit geological investigation combining structural analysis and ore mineralogy

Demonstrated experience working from drill core

Knowledge of mineralising systems

Demonstrate achievement with a record of publications commensurate with the years in the academic environment

Experience with successful collaboration with government and/or industry partners

Experience and willingness to supervise students and staff

Excellent written and verbal communication skills

Well-developed organisational skills and ability to set priorities and to meet deadlines

Ability to work independently, show initiative and work productively as part of a team

Demonstrated core experience in field geology and mapping of Precambrian terranes is desirable

Experience in conducting high-end investigation for mineral characterisation and/or geochronology is desirable

Special requirements (selection criteria)

Fluent French language skills is desirable

Compliance

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

The University's Code of Conduct hr.uwa.edu.au/policies/policies/conduct/code/conduct

Inclusion and Diversity web.uwa.edu.au/inclusion-diversity

Safety, health and wellbeing safety.uwa.edu.au/