Modeller (Process Modelling & Flowsheet Simulation) | Tiris Ressources

Tiris Ressources SA, a subsidiary of Aura Energy, is recruiting an early-career modeller to take custody of the process flowsheet model of the Tiris Uranium Project in Mauritania and to help shape the modelling tools the project will use through detailed engineering and operations.

About Us

Tiris Ressources is a subsidiary of Aura Energy Limited, an Australian Stock Exchange listed (ASX: AEE) uranium company with projects in Mauritania and Sweden. The near-term-production Tiris Uranium Project in Mauritania has significant opportunities for both resource and production-profile expansion. With the company poised to commence financing and ultimately construct and operate Mauritania's first uranium mine, this role will help build the digitally enabled operation on which the project will be founded.

About the Role

Reporting to the Tiris Ressources General Manager Operations, with functional direction from Aura Energy's Head of Business Analytics, you will learn the project's flowsheet simulation quickly and take custody of the Tiris model through a structured handover from the engineers who built it. You will compare what the model predicts with what testwork and the pilot plant deliver, unit by unit, and close the gaps in order of value. You will build the evidence on which the company selects its flowsheet simulation package for detailed engineering and operations. And you will be the bridge: explaining what the model says, and what it cannot yet say, to geologists, laboratory scientists, finance, management and the colleagues who will automate and run the plant.

Based in Nouakchott, with regular time at the Nouakchott Technology Centre and occasional visits to the project site, this is an early-career role with real responsibility from the start, across:

- Model custody, version control and documentation
- Model fidelity: reconciling predictions with testwork and pilot plant results
- Evaluation and migration of the flowsheet simulation package
- Scenarios and decision support for engineering and project decisions
- Integration with the data platform, the digital twin and the financial model

About You

- Degree in applied mathematics, physics, computational science, or chemical, process or metallurgical engineering; a Master's degree or Diplôme d'Ingénieur with a modelling or simulation component is an advantage
- Early-career: 0 to 3 years' experience, including internships and final-year projects; no prior flowsheet simulation or uranium experience required
- Strong in mathematical modelling, numerical methods, optimisation and statistics; comfortable with mass and energy balances and reaction kinetics, or able to acquire them quickly
- Programming or scripting ability (e.g. Python, Excel VBA) and comfort with data
- Able to explain technical work clearly to people who are not engineers or programmers
- Curious about code and about people; learns complex systems fast; asks "how do we know that?" of every number, including your own
- Fluent in Arabic or French; working proficiency in English
- A strong commitment to safety and to building Mauritanian capability

How to Apply

Please send your CV and a brief cover letter explaining why you are interested in this role to recruitment@auraee.com

Applications close Friday 4 December 2026.

Tiris Ressources SA
Lot N 256 PRTZ (ISCAN), Tevragh Zeina, En face de l'ambassade des États-Unis
Nouakchott, Mauritanie