



Australian
National
University

Postdoctoral/Research Fellow in *epitaxy of III-V semiconductors* at The Australian National University

Position overview

We are currently seeking a Postdoctoral/Research Fellow to join our research team to embark on a project entitled "*Improving Efficiency, Durability and Cost-effectiveness of III-V Semiconductors for Direct Water Electrolysis*" funded by the Australian Renewable Energy Agency (ARENA).

Direct solar-to-hydrogen conversion presents the most promising technique for achieving both high efficiency and lower costs by eliminating various efficiency loss mechanisms and reducing capital expenditure. This project aims to demonstrate a photoelectrochemical system using III-V multi-junction semiconductors through cost-effective epitaxial lift-off techniques that are surface modified for robust operation. The activities of project involve epitaxial growth of multi-junction III-V semiconductor materials, epitaxial lift-off, surface passivation and catalyst functionalisation, and prototyping water splitting system.

The Postdoctoral/Research Fellow will conduct research on the **epitaxial growth of metamorphic and lattice-matched multi-junction III-V semiconductor materials**. This position will also support research on epitaxial lift-off and device development for solar cells and solar fuels generation applications.

If you have relevant qualifications, with publications in support of your success, we would encourage your application.

The project spans 3 years, running from Jan 2019 to Dec 2021. Position is for an initial 2 year fixed term, with 1 year extension upon meeting project mid-year milestones.

Classification: Academic Level A / Academic Level B

Salary package: \$71,509 - \$111,356 per annum plus 17% superannuation

Term: Full time

Application information

Please apply online through:

<http://jobs.anu.edu.au/cw/en/job/527965/postdoctoral-fellow-research-fellow-epitaxial-growth>

and upload the following documents:

- A statement addressing the selection criteria.
- A current curriculum vitae which includes the names and contact details of at least three referees (preferably including a current or previous supervisor).
- Other documents, if required.

Applications which do not address the selection criteria may not be considered for the position

For more information please contact:

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