

# Job Opportunity

## Materials Engineer (Electrochemistry)

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Full-Time – Sydney, AU

**[Apply Here by the 30<sup>th</sup> of November](#)**

Syenta is on a mission to make prototyping and manufacturing of electronics more accessible, efficient and better for the planet and was born out of an applied PhD project at the Australian National University.

Our team has built a one-of-a-kind additive manufacturing technology that is based on electrochemistry that enables our first customers within the solar industry to lower the cost of their manufacturing and improve the efficiency of their solar panels.

Our vision is to transform the electronics industry by empowering our customers to rapidly design and construct electronic devices from anywhere in the world. With the help of our technology, our customers are rapidly fabricating and iterating in-house, building devices such as sensors, photovoltaics, PCBs, antennae as well as other undreamt technology enabled by additive manufacturing.

We are growing fast here at Syenta. We are searching for brilliant minds who want to help us take our technology to a new level.

**[See our method in action!](#)**

### About the role:

Syenta is developing the next step in electronics manufacturing using our patented method based on localised electrochemistry. We have created a fabrication process that produces high quality materials at high resolution, is additive, and sustainable. We are in search of a talented electrochemist to expand and refine the materials capabilities of our electrochemical printer. Your role will involve developing new inks and materials, as well as entirely new ways of printing. Your work will enable Syenta's electrochemical printer to enhance



the performance, affordability and sustainability of key electronics products including solar cells, batteries, printed electronics, sensors, PCBs and semiconductors.

You will be responsible for:

- Developing new ink formulations and ensuring printing process compatibility.
- Designing printing procedures and techniques that maximize the performance and reliability of the printing process, understanding the interactions between different chemicals and optimizing printing parameters.
- Conducting rigorous testing and characterization of the printed materials to assess their quality, functionality, and reliability.
- Collaborating with cross-functional teams to integrate the ink formulations and printing techniques with other aspects of the printer, including as electrical and mechanical systems.
- Staying abreast of the latest advancements in the field of localised electrodeposition and applying that knowledge to drive innovation and push the boundaries of what is possible with our printer.

This position presents an extraordinary opportunity to be at the forefront of printed electronics technology and shape the future of the material science of electronics manufacturing.

## About you:

You are a highly motivated and experienced electrochemistry expert, who loves meaningful challenges and has the ambition to make a significant impact in the field, where you will continue to grow professionally. You have experience in electrochemistry or electroplating and are familiar with materials and chemical characterization methods. You work in an outcome-oriented way and like solving problems using a combination of your skills as well as learning new techniques. You thrive in fast-paced environments and excel at managing complex scientific projects. You communicate effectively and can build strong relationships with team members and stakeholders alike. You excel at documenting your R&D work, as well as presenting your findings to the Syenta team, customers and other stakeholders. This is an exciting opportunity to be part of a dynamic, multi-disciplinary team, contribute to the development of new technology, and continue your professional growth in an inclusive and innovative environment.



## Required Experience:

- Electroplating and/or electrochemistry
- 3+ years postgraduate experience, preferably in industry
- Materials and chemical formulation and characterisation
- Project/laboratory and team management experience
- Great written and communication skills

## Desirable Experience:

- Localised electrodeposition
- Exposure and use of additive manufacturing methods
- Surface chemistry
- Device fabrication and characterisation
- Semiconductor manufacturing

## Syenta Life:

At Syenta we firmly believe that start-up life is not about endless 60-hour work weeks. Our culture is to empower our team with benefits that enable you to do your best work whilst maintaining a healthy relationship with your life outside the office. Some of the ways we do this include:

- Equity packages for our company to become your company
- Flexible leave arrangements to help you chill out, see friends and family, or follow a passion
- Supportive parental leave policy for all parents and carers

We are building a company of incredible, friendly, and hard-working people. If you would like to be a part of a company that is changing the world, please reach out.

## Contact:

We would love to hear from you! You can either [apply now](#) or send an email to [info@syenta.com.au](mailto:info@syenta.com.au) for more information.

