



# ProSep

## Expert Series

With Amanda Reichert, Process Engineer



**What is your current role at ProSep? How long have you been here? What is your background prior to ProSep?**

I'm a chemical engineer with a Master's in Water and Wastewater Treatment from the University of Texas in Austin, and I have always worked as a Process Engineer for the Oil and Gas industry.

I have been at ProSep for the last three years now and at ProSep I'm working as a Process Engineer, but I'm currently focused on research and development searching for new applications of our proprietary media.

**I hear you are working on something quite interesting currently on Lithium - can you tell us about it? What is the product being used and what problem are you trying to solve? How did you come about discovering this application?**

Yes, sure and this topic is really exciting. ProSep is known as a service provider to the oil and gas industry with a proprietary adsorption media for water treatment. During investigations for new applications of this media we identified a synergy in which our OSORB Media could be used for lithium extraction. Basically, we are using the solvent extraction method from the mining industry combined with our OSORB Media to extract the lithium from the brines. Both technologies combined can reduce the amount of chemicals being used during the extraction and make the process more efficient with a reduced OPEX.

**Obviously, Lithium is an important component of Electric Car Batteries, how will what you are working on help in the end-markets?**

Lithium, it's one of the main components in the battery production, and we know that the global lithium demand projections show that we can expect about 2,000,000 metric tons of lithium carbonate equivalent by the year 2030, more than doubling the demand forecast for the year 2025. So, our technology can help the lithium supply growth by extracting lithium from brines in a faster and more efficient way compared to the traditional evaporation process.

**Why do you find this specific application exciting to work on? Have you filed a patent on it?**

The whole world is talking about how electric cars can help reduce greenhouse emissions and we are also seeing government pressures and incentives worldwide to boost the demand for EV batteries. I think we all have to agree that having a technology that could potentially help this scenario in demand is exciting to everyone. And yes, we are filing a patent right now for our new lithium extraction technology.

**What is the plan for this product application in the next 1-2-3 years?**

So we are currently testing field brines in our lab and the results so far are extremely promising, and it's leading us to expand our testing to pilot, plant scale and further commercialization, so we are going to see that in for the next years to come.

Thank you to Amanda for sharing her thoughts on the Lithium Market.

Keep up-to-date with the rest of the series and hear more from our experts at [www.prosep.com](http://www.prosep.com)