

Situation Wanted

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F. Xavier Borrás

PhD in Tribology, MSc in Industrial Engineering, 32 years old.

I have been working within the Sealing Technology field for the last 7 years. I initially focused on pressurised PTFE piston rod seals for a Stirling engine manufacturer (Sweden). Later, during my PhD, I specialised in FKM rotary lip seals for a stern tube seals supplier (The Netherlands).

During these years, I realised the complexity of manufacturing reliable seals and gaskets. A large amount of testing is required before a new design reaches the market. This results in little development of the sealing components and we often end up using non-optimal seal designs for our applications.

In other words, there is room for improvement. **Additive Manufacturing (AM) eases the development of customised sealing components.** In the past, AM lacked the dimensional accuracy and the surface quality necessary for seals. However, nowadays AM technologies show improved precision and new materials with enhanced tribological properties are emerging.

I am looking for an industrial partner to explore the possibility of using AM for their sealing components.

I plan to carry out a feasibility study to determine the most suitable AM technology and materials to manufacture seals.

Do contact me if you would like me to focus on your seals.

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Do contact the ELGI carol@elgi.demon.nl if you have further questions.