

Research Scientist, Vancouver, BC, Canada

Company Profile:

Aether Catalyst Solutions Inc. is an innovative technology company, located in Vancouver, B.C. The company is developing and commercializing an ultra low cost, high performance 3 way catalyst to replace the expensive precious metal in the catalytic converters used by today's cars and trucks. Our order of magnitude cost reduction technology does not contain any of the expensive platinum group or rare earth metals and can be processed using simple manufacturing methods that are scalable to high volume and low costs.

Position Summary:

Aether is seeking a full time Research Scientist who enjoys using their detailed chemistry knowledge to solve challenging problems in a dynamic team environment. Specifically, Aether is looking for an individual who can drive our understanding of catalyst degradation through theory, experimental design and material characterization to significantly improve catalyst robustness under accelerated aging conditions.

This position reports to VP of Research.

Key Duties and Responsibilities:

- Build hypotheses on root cause of catalyst degradation during accelerated aging
- Construct chemical models and experimental plans to prove / disprove hypotheses
- Develop and refine catalyst material characterization techniques to improve understanding of initial catalyst formulations and catalyst degradation mechanisms
- Propose catalyst formulation changes to improve exhaust gas conversion efficiency both at beginning of life and after aging

Required Skills and Experience:

- Degree in Chemistry with a focus on physical chemistry or an equivalent combination of industry experience and knowledge
- 5+ years of R&D experience with a strong and proven background in catalyst chemistry and experimental design.
- Hands-on experience and knowledge in lab operations and operating/assessing/optimizing catalytic systems.
- Experience in the use and data analysis of XRD, XPS, SEM, and TEM
- Ability to clearly present information, including experimental data and results, orally and in technical written documentation.
- Good interpersonal and communication skills.

To Apply:

To apply, please send your cover letter and resume to greg.james@aethercatalyst.com with "Research Scientist" and your name in the subject line.
