

# Pratap SATHIAH

Senior Technical Safety engineer

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Pratap Sathiah is Senior Technical Safety Engineer in Project and Technology Safety division in Shell. He has 12+ (overall 14+) years of extensive experience in technical safety engineering mostly on Major Hazards. He has worked on hydrogen safety for hydrogen refuelling stations e.g., development of guidance document for the layout of hydrogen refuelling station. Furthermore, he was involved in the development of consequence modelling tools (FRED and PDRFOAM) for the analysis of hydrogen dispersion, jet fires and explosions. In addition, past several years he is working on the safety of liquid hydrogen for large scale shipping (HYSTRA project). This involves working with several universities/industries and participation in various EU projects and Joint Industry Projects (PRESLHY, SH2IFT etc). At present, he is working on hydrogen safety studies for large scale electrolysis units and the development of a layout for the LH2 refuelling station. He is representing Shell as a hydrogen safety expert in ISO working group.

Before joining Shell, he was involved in the development of CFD based tools to model hydrogen dispersion, fires and explosion for nuclear safety applications in NRG, The Netherlands. He also worked in the combustion dynamics division in General Electric, Bangalore. He has presented 10 papers at international conferences and published more than 20 articles in well-known reputed journals. The personal webpage contains an updated list of publications.

Pratap has a Bachelor in Chemical Engineering, Masters in Chemical Engineering with a specialization in Process Engineering and Design in India and PhD in Mechanical Engineering from the Chalmers University of Technology Sweden.