Sumitomo SHI FW is a world leader in combustion and steam generation technology. The company has sold over 500 circulating fluidized bed (CFB) steam generating units around the world, bringing high-value technology solutions to utilities, independent power generators, municipalities and industrial clients. Our leadership position in CFB combustion has resulted from our commitment to deliver superior designs providing high efficiency, fuel flexibility and low emissions.

Our power solutions expand beyond fluidized bed technologies, covering flue gas cleaning, gasification, waste heat boilers and a full spectrum of aftermarket services. We pride ourselves in being able to cleanly and reliability convert the widest range of low quality fuels, waste materials and waste heat into affordable sustainable power, heat, syngas and steam for our clients. Our goal to provide sustainable energy solutions for all types of power applications relies on the most talented people with the deepest know-how and experience in the industry.

Sumitomo SHI FW is looking for a

R&D ENGINEER IN AREA OF MATERIALS FOR THE POWER SECTOR

Candidates should be pursuing or have a master's degree in Material Science with knowledge in metallic materials and physical metallurgy. Basic knowledge of steel alloys, their physical properties, and their mechanisms of corrosion and oxidation, is necessary. Previous working experience in metallurgical laboratory, in failure analysis or material selection in boilers is welcome, but not necessary.

The work requires collaboration with other research engineers, process and design engineers, and technology experts. It implies desk work as well as laboratory and field work in commercial units.

Knowledge of English language is mandatory. Knowledge of other languages is valued, but not necessary. Skills in common computer software (e.g. Office) is also mandatory. Skills with technical applications (e.g. Matlab, coding languages) and models for the characterization of alloys and their performance in boilers is welcome, but not necessary.

The work implies an intense but rewarding period learning the company's technology for Circulating Fluidized Bed combustors. This knowledge will be then applied within the company for material selection, failure analyses, and material upgrades in boilers for industrial and power applications. The short-to-mid-term target for the candidate shall be:

- manage selected R&D material projects, focusing on projects requiring laboratory or field testing
- manage failure analysis projects and perform needed metallurgical analysis in laboratory
- maintain knowhow and experience from our units, especially concerning failure analysis
- support engineering and service departments with material troubleshooting and failure analyses.

Long-term career opportunities include the possibility to become a primary R&D investigator and/or an expert boiler metallurgist within the company.

The primary work location is Varkaus. Alternative locations or remote working may be considered for highly experienced candidates, or for young candidates after few years.

For further information: Mr. Pasi Kortelainen (Team Leader / Principal Metallurgist): pasi.kortelainen@shi-g.com or 040 684 5376.

How to apply: Please send your CV and application letter to sfw.fi-recruitment@shi-g.com. This posting will remain open until a suitable candidate has been found.