

## DSM (China) Limited

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## Royal DSM N.V. – the Life Sciences and Materials Sciences Company

Royal DSM N.V. creates innovative products and services in Life Sciences and Materials Sciences that contribute to the quality of life. DSM's products and services are used globally in a wide range of markets and applications, supporting a healthier, more sustainable and more enjoyable way of life. End markets include human and animal nutrition and health, personal care, pharmaceuticals, automotive, coatings and paint, electrical and electronics, life protection and housing. DSM has annual net sales of almost EUR 9.3 billion and employs some 23,500 people worldwide. The company is headquartered in the Netherlands, with locations on five continents. DSM is listed on Euronext Amsterdam. To learn more about DSM, please visit our website at [www.dsm.com](http://www.dsm.com).

The fundamental materials research for DSM's Performance Materials Business groups and the DSM's Life Science Cluster as well as the various Emerging Business Areas, is done by the research unit DSM Ahead. Next to Chemistry and Technology, DSM Ahead's Materials Science Research Center (MSC) is providing solutions for problems concerning material processing and properties. Based on fundamental understanding we provide ongoing support of several business groups in their efforts to improve, innovate and refine their products. The MSC is located at the Geleen (Netherlands) based Research Campus and comprises about 130 people.

Due to the growing business potential and needs in the Asia Pacific region, DSM is building a Performance Materials Research Centre in Shanghai with a strong focus on DSM Engineering Plastics. In this Performance Materials Research Centre, materials experts are conducting research projects and supporting regional product and application developments. All research activities in this materials science field will be aligned and steered globally. For the Material Science Centre in Shanghai we are looking for:

### Research Scientist Polymer Mechanics

#### The Challenge

You will work at the interface between R&D and the business in solving both short and long term problems in the fields of mechanics of materials. As a Research Scientist you will analyze problems with business relevance; through studying scientific literature combined with your detailed understanding of the mechanics, you will cooperate with experts in order to find solutions through experimental work and modeling. Thereby, your in-depth analysis will guide the development of products and applications for DSM. A typical research project could be the analysis of (automotive) transmission systems, identifying the requirements in terms of wear and friction performance, defining and executing a research program and translating the results into a material or design solution. But also the analysis of mechanical failures or failed parts, investigate the mismatch between requirements and material properties and provide a material or design solution in close cooperation with application and product development and the computer aided engineering group.

You will be stimulated and coached to develop yourself in scientific projects, as well as on your personal skills like entrepreneurship, communication and leadership.

#### The Ideal

You have a PhD degree in mechanical engineering with a specialization in mechanics, mechanical polymer properties and, preferably, numerical methods (FEM). You combine the capability of thinking out / scheduling experiments with good analytical skills. You have always had a real interest in finding out how "things work". Being able to create liaisons between different working disciplines is considered as an advantage. You are a pragmatic person who likes to implement gained knowledge into real solutions. Furthermore the entrepreneurial and innovative aspects of the job and DSM inspire you. Regarding personal skills, you are both a team player and, with a team spirit, able to work on your own. You have a broad interest and you are able to sell your scientific ideas to interested parties within DSM. You demonstrate strong communication skills and have the ability to take initiative; actively searching for new ideas, understanding problems, which are relevant for the business, and implementing workable solutions. You are capable of working in close collaboration with other professionals from different fields and maintaining close working relationships with professionals working at the MSC in Netherlands. Fluency in Chinese (preferably native speaking) and English is crucial to establish these global working relationships. Finally, you are a conceptual and critical thinker, able to dive into detail where required as well as able to generate creative solutions.

If you are interested in this challenging job and see a good fit with your qualities, please send your resume (in English) to DSM: [Qing.Jin@dsm.com](mailto:Qing.Jin@dsm.com), before February 18<sup>th</sup> 2013