



## R&D Scientist (Dispersions, Lubricants, MWF and/or greases development)

Nanotech Industrial Solutions Inc. is the exclusive manufacturer of Inorganic Fullerene-like Tungsten Disulfide nanoparticles and is involved in developing next generation additives for metalworking fluids, lubricants, greases and coatings based on the inorganic WS<sub>2</sub> particles. NIS has its global corporate office, R&D lab and manufacturing facility at Avenel, NJ. The Research and Development Division is currently expanding and is looking for product development Scientist/Engineers/Technicians to join the team.

Lubricating oils and greases is a constantly growing market (over \$100 billion as of 2012) with a global consumption over 90 billions of pounds. This is a great opportunity for a right candidate to join successful company with unique competitive product in fast growing market.

The candidate should provide hands on dispersions development (solids in liquid), industrial lubricants, greases, gear oil, chain oil formulation, and testing experience in support of the business objective to produce and sell unique product. The candidate should have excellent knowledge in petrochemistry, surface chemistry, dispersion and mixing. Experience in lubricant and greases formulations and blending. The candidate will work in a team environment with sales, manufacturing and QC to ensure products meets highest standards and customer's requirements. The candidate will also provide technical expertise to support product improvement by working in conjunction with external labs and universities.

Primary duties and responsibilities include but not limited to:

- Development of dispersions in various media (water, oils, solvents etc.)
- Industrial lubricants (gear oils, chain oils, diesel engine oils etc.), oil additives, greases design and formulation
- Understanding of lubricant market and technology
- Tribological and rheological testing
- Maintaining test logs, SOPs, safety and technical datasheets.
- Experimental design, modeling, data analysis
- Writing technical papers and giving technical presentations if required
- Comply with safety regulations and environmental standards

Skills and Expertise

- PhD in Chemistry, Chemical Engineering, Material Science, Petrochemical Engineering. Or: BS with 10+ years experience, MS with 6+ years of experience
- Experience in particles functionalization, dispersion
- Experience in industrial oils and lubricants formulations, design and testing
- Experience in surface chemistry, material analysis and petrochemistry
- Knowledge of drilling fluid (drilling mud) formulation, design and testing is a plus
- Ability to convey technical concepts/ideas in clear and effective manner, verbally and in writing
- Self-motivated, ability to work under general supervision and in a team
- Knowledge + familiarity with following equipment: profilometer, tribometer, rheometer, viscometers, dropping point, ICP, Laser diffraction, FTIR, oxidation bath is a plus

[Please email your resume to maria@nisusacorp.com](mailto:maria@nisusacorp.com)