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Technical Lead, MRI – Job Description TÜV SÜD America

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TÜV SÜD America Inc., a global leader in testing, inspection and certification, has an immediate opening for a MRI Compatibility Technical Lead based in New Brighton, MN.

Your responsibilities will include, but are not limited to

- Development of numerical and metrological test methods for measurement of induced heating, vibration force, torque, electric potential and malfunction
- Execution of tests and evaluation of results in MRI environment
- Develop and document testing procedures, plan and reports
- Adapting the test methods to the state of the art
- Validation/Verification of test methods and results
- Active participation in the international committees related to MRI safety

This job may be for you if:

- Master or PhD in the field of Electromagnetics, Radio frequency, Microwave, Medical imaging (physics) or similar.
- Minimum of 5 years MRI safety experience;
- Demonstrated ability to work independently and in a team environment;
- Demonstrated, excellent oral and written communication skills;
- Self-starter with a positive outlook and motivated attitude;
- General knowledge on MRI physics
- Experience in MRI safety of medical implantable devices
- Experience in 3D modelling and 3D electromagnetic numerical simulation (software Ansys, Sim4Life/SEMCAD, CST or similar) e.g. RF coil, microwave and antenna simulation
- Experience in programming (e.g. Python, Java, ...)
- Knowledge and experience with measurement technologies
- Knowledge of project management
- Knowledge of Microsoft Office
- Familiar with MRI safety standards for implantable medical devices
- ISO/TS 10974:2018 (induced heating, vibration force, torque, electric potential and malfunction)
- ASTM F2052-15, ASTM F2052-14, ASTM F2119-07, ASTM F2182-11a, ASTM F2213-17 ASTM F2213-06, ASTM F2503-13, ASTM F640-12

Equal Opportunity Employer – Disability and Veteran

TÜV SÜD America, Inc. is an equal opportunity, affirmative action employer and considers qualified applicants for employment without regard to race, color, creed, religion, ancestry, marital status, genetics, national origin, sex, sexual orientation, gender identity and expression, age, physical or mental disability, veteran status and



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those laws, directives, and regulations of Federal, State, and Local governing bodies or agencies. We participate in the E-Verify Employment Verification Program.

For more information on applicable equal employment regulations, please refer to the following:

- EEO is the Law Poster:
<https://www.dol.gov/ofccp/regs/compliance/posters/pdf/eeopost.pdf>
- EEO is the Law Poster Supplement:
https://www.dol.gov/ofccp/regs/compliance/posters/pdf/OFCCCP_EEO_Supplement_Final_JRF_QA_508c.pdf
- Pay Transparency Policy Statement:
<https://www.dol.gov/ofccp/PayTransparencyNondiscrimination.html>
Job Type: Full-time

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