



**JOB DESCRIPTION – MRI SCIENTIST  
(Helsinki-Vantaa, Finland office)**

<b>Description</b>	
<b>Job Title</b>	MRI Scientist – Helsinki-Vantaa, Finland office
<b>Reports to Title</b>	VP Research and Development
<b>General Accountability</b>	<p>Our mission is to Profoundly change the standard of care by creating a tomorrow where clinicians can confidently ablate tissue with precision; a tomorrow where patients have access to safe and effective treatment options, so they can quickly return to their daily lives. Changing the standard of care is part of our fabric. We are a group of energetic, problem-solvers focused on innovation, and looking to change the world. If you want to make a Profound impact with your career, here is your chance.</p> <p>The MRI Scientist is responsible for analysis, design and test of MRI-related aspects of the Company’s medical device, including algorithms, software, imaging protocol optimization, device function and system MR-compatibility. In addition, the role will support clinical activities and the associated regulatory submissions.</p>
<b>Duties and Responsibilities</b>	<ol style="list-style-type: none"><li>1. Analysis and optimization of temperature reconstruction and treatment control algorithms</li><li>2. Design, implementation and testing of software to integrate with MR equipment</li><li>3. Development, testing, and optimizing MRI protocols for various MRI models</li><li>4. Develop and implement data analytics to assess the technical performance of the product</li><li>5. Develop computer simulations to investigate changes to the treatment algorithms</li><li>6. Design, implementation and testing of image processing software</li><li>7. Design of software and methods to support integration of the device with various MRI models; interact with MRI vendors as needed</li><li>8. Run regular phantom testing with new revisions of equipment/software at MRI</li><li>9. Create, update and execute test procedures</li><li>10. Investigate product complaints, perform root cause analysis of failures, and propose remediation in a timely fashion</li><li>11. Generate Intellectual Property by analyzing, inventing and documenting designs and methods</li><li>12. Report defects in defect tracking system and verify fixes for defects</li><li>13. Interact with the wider scientific community through publications and attending conferences</li><li>14. Participate in the generation of system requirements and specifications</li><li>15. Participate in risk management and usability engineering activities</li><li>16. Assist Company in planning, development and execution of clinical</li></ol>

	<p>trials</p> <p>17. Assist in the regulatory submissions of products; participate in regulatory strategy discussions; liaise with physicians on future clinical investigations initiated by the company and external parties</p>
<b>Competencies</b>	
<b>Education</b>	Masters or PhD in Biomedical Engineering, Medical Physics or equivalent
<b>Certifications</b>	None
<b>Key Attributes (experience, skills and technical knowledge)</b>	<p><b>Required:</b></p> <ul style="list-style-type: none"> <li>▪ Fluent in English, verbal and written</li> <li>▪ 2 years MRI experience</li> <li>▪ Experience developing software in an object oriented language</li> <li>▪ MRI physics understanding</li> <li>▪ MatLab or Python scripting</li> <li>▪ Working knowledge of general information technology: Windows OS, IP networking, basic security, etc.</li> <li>▪ Excellent problem solving and troubleshooting skills</li> <li>▪ Ability to thoroughly document and summarize all aspects of development and testing efforts</li> <li>▪ Detail-oriented</li> <li>▪ Interest in applications of engineering in medicine</li> <li>▪ Able to work well in teams and independently</li> <li>▪ Valid passport for travel to Canada, United States and Europe</li> </ul> <p><b>Desirable:</b></p> <ul style="list-style-type: none"> <li>▪ MRI console operation</li> <li>▪ MR-protocol development</li> <li>▪ Knowledge of OOD principles including Design Patterns and Test Driven Development</li> <li>▪ Well-versed in integration of 3<sup>rd</sup> party components, tools and APIs</li> <li>▪ C# or/and C++ is an asset</li> <li>▪ Agile / Scrum software development methodologies</li> <li>▪ Basic experience with image processing</li> </ul>