Position Title: Lead RF Coil Engineer
Hiring Manager: Susan Mathew (Susan.Mathew@ge.com or 262 443 8396)
Location: Waukesha, WI

Role Summary
This role, supporting MRI, understands the function and design of RF circuits, RF electronics, antennas and their application in the design of high power Body Transmit/Receive coil and low power receive only coils. (S)he is experienced in the implementation of RF designs to optimize cost, manufacturability, reliability, and serviceability of the final product. This engineer would develop new component and product designs as well as own and maintain existing installed base products.

Essential Responsibilities
Duties include (but are not limited to):
1. Designing high power and low power RF electrical components and interconnects
2. Engaging in all phases of new product development, including concept, architecture, documentation, design, prototype, test, product cost, supplier interfaces, manufacturing introduction and service support.
3. Work closely with cross-functional teams to ensure product performance, quality and reliability.
4. Usage of RF and EM (electromagnetic) simulation/ design tools to ensure robust and efficient product design.
5. Own and maintain existing installed base products.
6. Solves complex and ambiguous problems. Perform trouble shooting (at bench level and system level) encompassing multiple variables to achieve root cause analysis and problem resolution. Recommend design and conduct experiments and diagnostic tests, as required to draw conclusions and solutions.
7. Develop robust designs for new or existing products that can be produced economically and according to established project timelines
8. Broad influence over large multi-disciplinary and/or cross-functional teams
9. Leverage their technical depth to work on business initiatives aimed at driving technology harmony, innovation, process convergence and/or quality excellence for a particular product line
10. Drives design evolution across multi-generation product releases
11. Act as activity leader of department activities within a project (time-plan, resource needs, status reports, cost monitoring, resource usage, technology requirements, etc.)
12. Provides mentoring and coaching to develop technical talent.
13. Maintain and develop competence required for the job

Qualifications
1. Bachelors with 5 + years relevant work experience or Master’s Degree with 3 years relevant work experience (or Ph.D. Degree) in Engineering: Biomedical Engineering, Electrical Engineering or a closely related field.
2. Demonstrated experience in RF design.
3. Experience with RF Circuit and Electro Magnetic (EM) simulation tools

Desired Characteristics
1. Good understanding of Magnetic Resonance Imaging fundamentals, RF Coil design and electromagnetics.
2. Excellent teamwork, coordination and communication skills
3. Ability to execute multiple-tasks simultaneously, and make tough decisions based on business objectives and goals.
4. Ability to meet aggressive reliability, performance, cost, serviceability, and delivery targets
5. Demonstrate an ongoing effort to maintain knowledge of current technology
6. High proficiency to interpret and explain complex technical information.
7. Detail oriented
8. Creative problem solver and solution developer when presented with conflicting requirements, business demands and technical risks/issues
9. External focus - Understand the customer and market and the ability to translate the opportunities into concrete actions.
10. Six Sigma Green Belt/Black Belt Certified

**Please connect with Susan direct if you would like to discuss further -or- Apply at: http://www.ge.com/careers -
Search by Vacancy #: 3080038 **
Position Title: Lead Engineer, EMC & Packaging
Hiring Manager: Jacob Fluckiger (jacob.fluckiger@ge.com or 262-409-1107)
Location: Waukesha, WI

Role Summary
Join the GE Healthcare MR Systems Engineering Team to utilize your EMC and electronic packaging design, testing and debug skills to design and confirm EMC compliance for Magnetic Resonance Imaging products.

Essential Responsibilities
Duties include (but are not limited to):
1. Working closely with the MR Hardware Engineering Team to develop and qualify EMC constraints that are part of design and test of a system or product
2. Recommending applicable EMC tests to satisfy customer requirements
3. Providing design direction in the areas of electronic packaging and partitioning, internal and external cable design, routing, and shielding, grounding and isolation requirements, circuit board layout recommendations, and simulation activities
4. Preparing, scheduling and conducting EMC Program Plans, Essential Performance documentation, Control Plans, Product Test Plans and strategies and Technical Justifications
5. Performing test readiness reviews before EMI testing at independently certified facilities
6. Directing EMI/EMC testing and leading EMC debug efforts
7. Engaging in new product introduction, including concept, architecture documentation, design, prototype, test, supplier interfaces, manufacturing introduction and service support to ensure that EMC is considered in all phases of the design

Qualifications
1. BS in Electrical Engineering or Mechanical Engineering
2. 7 years engineering experience in a related field. Applicable experiences in: digital and RF design, component-level debug of electronic systems to correct EMC failures, utilization of signal integrity software for regulatory compliance.
3. Understanding of Electromagnetic theory and must have hands-on experience with EMC design and EMI testing as applied to cable management and electronic packaging
4. Demonstrated experience in EMC design, test and control.
5. Working knowledge of Mechanical and Thermal aspects of sub-system design and packaging
6. Experience with common lab tools including Spectrum Analyzers, Network Analyzers, etc. is essential.
7. Must be willing to work in our Waukesha, WI facility full-time

Desired Characteristics
1. MS or PhD in Electrical Engineering, Mechanical Engineering or equivalent experience
2. Familiar with radiated and conducted emissions and susceptibilities of systems, system signal and power coupling effects, and EMC containment and source
3. Experience with electronics packaging and/or cable design and management
4. Understanding of commercial standards and EM effects
5. Demonstrated technical leadership capability in integration activities
6. Self-starter, energizing, results oriented, and able to multi-task
7. Excellent teamwork, coordination and communication skills
8. Ability to meet aggressive reliability, performance, cost, serviceability, and delivery targets
9. Effective oral and written communication skills
10. Global project experience
11. Working experience with PWA/PWB and subsystem design techniques for signal integrity and EMC Circuit design and simulation tool experience
12. Knowledge of UL/ETL/IEC standards and how they apply to designs
13. Working knowledge of GEHC tools and processes EQPM, ePDM, Cadence
14. Experience developing and presenting EMC training courses for Circuit Design Engineers, Circuit Board Designers, Mechanical Engineers and Mechanical Designers

** Please connect with Jacob direct if you would like to discuss further -or- Apply at: http://www.ge.com/careers - Search by Vacancy #: 3076944 **
Position Title: Lead Systems Tools Engineer, MR
Hiring Manager: Jacob Fluckiger (jacob.fluckiger@ge.com or 262-409-1107)
Location: Waukesha, WI

Role Summary
The Lead Systems Tools Engineer, MR will be responsible for driving MR system tools and engineering tools development activities for MR Products.

Essential Responsibilities
Duties include (but are not limited to):
1. Responsible to design and develop service tools to assess system calibration, performance assessment and troubleshooting.
2. Responsible to dissect the high level system requirements into component level for implementation.
3. Work with a cross-functional team, including service engineering and field service engineers to support the service vision for MR.
4. Responsible to drive the system tools SW platform strategy working along with MR SW organization.
5. Work with customers and internal cross functional team (Marketing, Engineering, Service, Field etc.) to define system level specifications for new applications and system HW (including Coils). Develop right verification method for the same to ensure product quality.
6. Developing methods to quantify subsystem interactions (including HW and SW) that are specific in system tools area.
7. Delivering and incorporating feedback results into new hardware, software and service specifications.
8. Take complete ownership on program technical issues on system tools area, drives effective cross functional discussions to arrive best optimum solution for the business. Take active participation in Technical Design Reviews (TDRs).
9. Responsible for requirements development, traceability and flow down, architecture / system design and analysis, FMEA, developing/executing system verification and validation test procedures, and providing support to manufacturing and field issues.
10. Working across functions and team boundaries to define, design, and implement the next generation of products.

Qualifications
1. Master's Degree in Biomedical Engineering/Electrical Engineering/Physics/Computer Science or closely related discipline.
2. Strong knowledge on data acquisition and analysis methodologies at system level.
3. Strong programming skills on Matlab and any other data acquisition and simulation software tools (i.e., Labview, Matlab-Simulink, Mathamatica etc.).
4. Strong programming skills on C/C++, Scripting (Shell, Perl, Phythan) and Java.
5. Hands on experience on MR/CT/PET scanners.
6. Demonstrated ability to work with technical leadership team to implement product platform/subsystem multi-generation technology plan for a specific release of a global program/product.
7. Ability to execute multiple-tasks simultaneously, and make tough decisions based on business objectives and goals.
8. Demonstrated experience driving CTQ flow-down to subsystems.
9. Proven knowledge of project management techniques and a thorough understanding of the Software Development Life Cycle (SDLC).
10. Broad exposure to HW/SW/Systems design, and technical depth in one or more engineering disciplines (Electrical, Mechanical, Software, etc.)
Desired Characteristics
1. Ph.D in Biomedical Engineering/Electrical Engineering/Physics/Chemistry or other closely related fields. 2+ years of working experience in industrial system engineering group.
2. Prior experience in the design and development of System tools for MR
3. Experience in Data acquisition and analysis methodologies in MR is an added advantage
4. Demonstrated experience on system design and developmental tools for MR.
5. Demonstrated skills in proactively identifying, facilitating and driving closure of a product/program
7. Good understanding of Magnetic Resonance Imaging fundamentals and working experience in GE Signa Scanners
8. Good knowledge on different areas of MR systems and having ability to perform system level characterization.
9. Excellent verbal and written communication skills
10. Excellent interpersonal and communication skills.
11. Self-starter, energizing and results oriented and able to multi-task
12. Creative problem solver and solution developer when presented with conflicting requirements, business demands and technical risks/issues

** Please connect with Jacob direct if you would like to discuss further -or- Apply at: http://www.ge.com/careers -
Search by Vacancy #: 3080051 **
**Position Title:** Lead Systems Engineer, Coils  
**Hiring Manager:** Jacob Fluckiger ([jacob.fluckiger@ge.com](mailto:jacob.fluckiger@ge.com)) or 262-409-1107  
**Location:** Waukesha, WI

**Role Summary**
This role has design responsibility to deliver customer workflow, feature functionality, product quality, reliability, serviceability, manufacturability, regulatory, compliance, and cost for the MR Surface Coil subsystem and interface. Activities include requirements development, traceability and flow down, architecture / system design and analysis, FMEA, developing /executing System V&V procedures, and providing support to manufacturing and field issues.

**Essential Responsibilities**
Duties include (but are not limited to):
1. Providing domain expertise to serve as the main integrator between the hardware and software functions to deliver the best high quality product
2. Working across functions and team boundaries to define, design, and implement technology solutions on NPI programs
3. Working with customers, marketing and field personnel to define requirements, which can be refined by the engineering teams
4. Developing methods to quantify subsystem interactions and their effects on image quality
5. Delivering and incorporating feedback results into new hardware, software and service specifications
6. Executing design to engineering standards.
7. Working within a team to deliver technical solutions
8. Reviewing necessary support documentation and maintain documentation for each test in a neat and organized fashion.
9. Offering suggestions to refine and automate test procedures; Prioritize and schedule testing
10. Performing basic trouble shooting encompassing multiple variables and unknowns to achieve root cause analysis and problem resolution. Conduct experiments and diagnostic tests, as required to draw conclusions.
11. Working with patient/customers and/or program leadership to ensure that the project deliverables are consistent with the goals of larger programs or initiatives
12. Working with the surface coils integration team through the design control process in areas of requirements development, risk management, verification, validation, and design transfer.
13. Ensuring that the technical risks are retired and the quality targets are achieved for a New Product Introduction.

**Qualifications**
1. Bachelors degree in Electrical Engineering, Biomedical Engineering, Physics, Chemistry or closely related discipline and 4 years relevant work experience.
2. Proven ability to develop timely and effective solutions for challenging design problems
3. Demonstrated problem-solving techniques
4. Demonstrated ability to make recommendations to technical and program leadership to improve the product, process or technology
5. Effective communication skills—ability to present ideas clearly and concisely
6. Proficient in the use of software tools for analysis and simulation (MATLAB, etc)
7. Demonstrated ability to pursue tasks to completion
8. Broad exposure to HW/SW/Systems design, and technical depth in one or more engineering disciplines (Electrical, Mechanical, Software, etc)
Desired Characteristics
1. Masters degree in Physics, Electrical Engineering or other closely related fields
2. Demonstrated problem solving ability and results orientation
3. Demonstrated experience on global product releases throughout the entire NPI cycle
4. Knowledge of UL/ETL/IEC standards and how they apply to designs
5. Creative problem solver and solution developer when presented with conflicting requirements, business demands and technical risks/issues
6. Attention to detail and ability work independently toward timely completion of a variety of assignments
7. Project leadership experience within manufacturing, development or research environment
8. Demonstrated familiarity with the technical aspect of MR surface coils, such as RF and Electromagnetic fields.
9. Self-starter, energizing, results oriented, and able to multi-task
10. Excellent teamwork, coordination and communication skills (verbal and written)
11. Global / multi-site project experience

** Please connect with Jacob direct if you would like to discuss further - or - Apply at: http://www.ge.com/careers - Search by Vacancy #: 3080047 **
Position Title: Lead Systems Engineer, IB
Hiring Manager: Jacob Fluckiger (jacob.fluckiger@ge.com or 262-409-1107)
Location: Waukesha, WI

Role Summary
The Lead Systems Engineer, IB works in close collaboration with the cross-functional engineers, clinical applications, scientists, customers, marketing team, and field teams to define and develop new product technologies to meet customer needs. This position has a high emphasis on driving significant design improvements in products within the installed base.

Essential Responsibilities
Duties include (but are not limited to):
1. Work closely with the installed base, service, and customer advocacy teams to coordinate the engineering response to issues raised on released products.
2. Work with the systems engineering installed base team for any technical design reviews, technical discussions, investigation and retirement of technical risks as they arise during installed base programs.
3. Work closely with product definition, clinical and marketing teams to clearly understand customer needs. Develop effective system performance requirements from customer/user requirements. Responsible for system requirements flow down and allocation to the subsystem teams.
4. Work closely with customers, marketing, applications, chief engineers, principal engineers, service and field personnel to define product quality targets and ensure key CTQs are satisfied
5. Define system acceptance criteria that will meet customer expectations. Drive quality evaluation of system features with complex designs; such as parallel transmit architecture, new integrated coils, and resonance module design changes.
6. Responsible for the identification of improvement areas to drive continuous improvement for efficiency and simplification to enable the system engineering team to more easily, effectively and consistently facilitate the execution of projects.
7. Work across functions and team boundaries to help define, design, and implement the next generation of MR products.

Qualifications
1. Master’s Degree with 3 years relevant work experience (or Ph.D. Degree) in Engineering or Life Sciences: Biomedical Engineering, Electrical Engineering, Computer Science, Chemistry, Physics, or a closely related field
2. Strong understanding of (modality) physics and imaging/signal processing fundamentals
3. Proven ability to develop timely and effective solutions for challenging design problems
4. Effective communication skills - ability to present ideas clearly and concisely
5. Demonstrated ability to pursue tasks to completion

Desired Characteristics
1. Ph.D. Degree in Engineering or Life Sciences: Biomedical Engineering, Electrical Engineering, Computer Science, Chemistry, Physics, or a closely related field
2. Demonstrated record of innovation in technology development
3. Proficient in the use of software tools for analysis, modeling and simulations
4. Experience with modality specific device operation and troubleshooting issues
5. Excellent oral and written communication skills
6. Experience with research collaborations
7. Self-starter, energizing, results oriented, and able to multi-task
8. Demonstrated problem solving ability and results orientation
9. Demonstrated ability to work in a collaborative, matrixed, and customer focused environment
10. Excellent communication, influencing skills and ability to gain buy-in for initiatives

** Please connect with Jacob direct if you would like to discuss further -or- Apply at: http://www.ge.com/careers - Search by Vacancy #: 3080412 **
Position Title: Clinical Development Specialist
Hiring Manager: Burcu Ozturan (Burcu.Ozturan@ge.com or 262-420-9141)
Location: Waukesha, WI and Aurora, OH

Role Summary
This position provides industry leading advanced applications support for the development of Magnetic Resonance scanners, applications and coils. The primary responsibility of this specialist is to act as clinical “voice of the customer”, ensure product solutions meet customer requirements, provide support to global program teams, and to participate in various new product introductions related activities, with a primary focus on clinical support for development of new coil technologies.

Essential Responsibilities
Duties Include (but are not limited to):
1. Provide clinical support for the development of Magnetic Resonance Imaging products.
2. Provide clinical support for the development of new coil technologies.
3. Work with global engineering to develop post-processing features and new coil technologies by providing clinical input from customers.
4. Apply knowledge of clinical MR post processing needs to guide definition and development of new imaging and post-processing techniques and new coil technologies.
5. Evaluate performance and quality of coils and features throughout the development process by designing protocols, traveling to partner sites for installation and testing.
6. Assist with customer complaints, investigations, offer product solutions.
7. Develop (clinical) competitive intelligence to support the field with counter arguments and selling advantages.
8. Support scientific congresses, customer seminars and internal training events.
9. Ensure high quality of MR post processing training delivery to the field applications teams and sales/marketing team.

Qualifications
1. Certified Radiologic Technologist (ARRT) or global equivalent.
2. At least 5 years of experience in MR post processing, including all clinical applications and performing procedures.
3. Ability to travel 10-20% of the time
4. At least 5 years of experience in communicating scientific data (talks, posters, papers).

Desired Characteristics
1. Advanced degree (Bachelors or Masters)
2. Previous experience of clinical studies / study coordination including study documentation
3. At least 10 yrs. experience in the medical industry
4. Applications experience
5. Previous GE Healthcare experience

** Please connect with Burcu direct if you would like to discuss further -or- Apply at: http://www.ge.com/careers - Search by Vacancy #: 3080424 **