Opened 30 days ago

Digital Electrical Engineer, MR Wireless

🖼 GE Healthcare

⊕ Healthcare Imaging

🗁 Engineering / Technology

🗀 OPEN

🕐 Early Career

🗀 R4034283

🔊 Internal/External

Relocation Assistance:Yes

Hiring Manager:Yun-Jeong Stickle

◎ Aurora, Ohio, United States of America, 44202-9273

Job Description Summary

We are seeking a highly skilled and motivated Digital Electrical Engineer to join our MRI RF Coil Electrical Engineering Team within GE Healthcare's Imaging MR modality. This role focuses on designing and developing advanced wireless-enabled digital electronics for MRI coil systems, ensuring high performance, reliability, and compliance with medical device standards.

The candidate will leverage knowledge of industry standard wireless protocols, digital communication standards, circuit board design process to ensure quality design output.

Job Description

Job Responsibilities

Duties include (but are not limited to):

- Design and implement wireless digital architectures for MRI coil systems.
- Support FPGA/ASIC-based solutions for signal processing and high-speed data transmission.
- Define and execute testing to evaluate wireless concepts in challenging RF environments.
- Drive schematic capture for circuit boards implementing associated wireless designs and high-speed interfaces.
- Write detailed functional specifications that document newly created designs and support product introduction.
- Perform system-level simulations, verification, and validation of wireless coil designs.
- Participate in all phases of new product introduction, including concept development, architecture, documentation, design, prototyping, testing, supplier interactions, manufacturing introduction, and service support.

Required Qualifications

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- BS in Electrical Engineering or a related field, with at least 1 year of relevant experience in wireless digital design, preferably in medical or other high-reliability systems.
- Experience and knowledge in the area of digital design and control with class of equipment: protocol analyzer, spectrum analyzer etc
- Working knowledge of project management processes and procedures.
- Experience with typical electrical test equipment such as oscilloscopes
- Working knowledge of PWA board bring-up and system integration experience

<u>Desired Characteristics</u>

- 3+ years digital design experience
- Schematic capture experience
- Experience with healthcare imaging modalities and working in a highly regulated environment.
- Demonstrated experience in designing standard bus formats such as PCIe, CAN, Ethernet, USB, and I2C.
- Experience implementing Wi-Fi in designs and productizing solutions using commercially available chipsets.
- Familiarity with industry-standard wireless protocols such as Wi-Fi, Bluetooth, and WiGig.
- Familiarity with embedded processors, drivers, and defining interfaces to Wi-Fi chipsets.
- Familiarity with MRI coil technology and electromagnetic principles.
- Demonstrated experience with Cadence and MATLAB or equivalent simulation/modeling tools.
- Self-starter, results-oriented, and able to multitask effectively.
- Excellent teamwork, coordination, and communication skills.
- Experience developing project plans and estimates.
- Effective oral and written communication skills.
- EMC-compatible design experience.

#Onsite

#LI-CH3

We will not sponsor individuals for employment visas, now or in the future, for this job opening.

Additional Job Description

Additional Information

Compensation Grade

PB1

GE HealthCare offers a great work environment, professional development, challenging careers, and competitive compensation. GE HealthCare is an Equal Opportunities Employer. (https://www.eeoc.gov/sites/default/files/2022-10/22-088_EEOC_KnowYourRights_10_20.pdf) Employment decisions are made without regard to race, color, religion, national or ethnic origin, sex, sexual orientation, gender identity or expression, age, disability, protected veteran status or other characteristics protected by law.

GE HealthCare will only employ those who are legally authorized to work in the United States for this opening.

While GE HealthCare does not currently require U.S. employees to be vaccinated against COVID-19, some GE HealthCare customers have vaccination mandates that may apply to certain GE HealthCare employees.

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Relocation Assistance Provided: Yes

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obs)

Posted on
Jan 13 2026

Job Title
Digital Electrical Engineer, MR Wireless

Job Location
Aurora, Ohio, United States of America, 44202-9273

Job Type
Internal/External

Recruiter Details
Claren Harris (https://internalcareers.gehealthcare.com/i/global/en/employeeprofile?userId=212803819)

Hiring Manager Email Address
yunjeong.stickle@gehealthcare.com
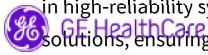
How your skill level fits this job

| Electrical Engineering | Schematic Capture | Spectrum Analyzer | I2c | New Product Introduction | Test Equipment | Prototyping |

| Ethernet | Rf | Matlab | Protocol Analyzer | Project Management Processes | System Integration | +12 ⌄ |

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December 18 2025

Senior Digital Electrical Engineer – MRI Wireless

(https://internalcareers.gehealthcare.com/i/global/en
/job/R4032383/Senior-Digital-Electrical-Engineer-MRI-
Wireless)

⊙ Aurora, Ohio, United States of America, 44202-
9273

🗁 R4032383

🖇 Internal/External

🗁 Engineering / Technology

🕑 Regular

Join a dynamic team where your expertise in wireless
digital design and RF engineering will shape advanced
MRI coil systems. Leverage your 5+ years of experience

December 19 2025

Lead Electrical Engineer – Detectors & Digital Electronics

(https://internalcareers.gehealthcare.com/i/global/e
n/job/R4033166/Lead-Electrical-Engineer-Detectors-
Digital-Electronics)

⊙ Waukesha, Wisconsin, United States of America,
53188-1696

🗁 R4033166

🖇 Internal/External

🗁 Engineering / Technology

🕑 Regular

This role will lead and participate in electrical
engineering design execution for New Programs
(NPI), cross-functional support to quality projects

January 21 2026

Digital ASIC Designer

(https://internalcareers.gehea
n/job/R4034684/Digital-ASIC-I

⊙ Niskayuna, New York, Unite
12309-1027

🗁 R4034684

🖇 Internal/External

🗁 Engineering / Technology

🕑 Regular

Design digital signal processin
for mixed-signal ASICs enablin
applications. Participate in all
development: architecture de

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in high-reliability systems to develop cutting-edge solutions, ensuring performance and compliance in a challenging medical environment.

initiatives for Detector's current products (IB), an...

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Frequently Asked Questions

Can I apply for more than one job?   +

Will I be considered for an open position?   +

What happens after I submit my application?   +

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