

Eric M. Gale
Assistant Professor in Radiology
A. A. Martinos Center for Biomedical Imaging
Department of Radiology
Massachusetts General Hospital/ Harvard Medical School
Suite 2301, 149 Thirteenth St., Charlestown, MA 02141
emgale@mgh.harvard.edu



Athinoula A.
Martinos
Center
For Biomedical Imaging



There is an opening for a research technician in the Gale Group at the Martinos Center for Biomedical Imaging at Massachusetts General Hospital/ Harvard Medical School starting **June 2022**.

Research projects: We are developing iron complexes as biochemically responsive MRI contrast agents. These new contrast agents modulate the MR signal in response to metabolic or enzymatically mediated transformations that alter metal ion electron spin configuration. We are currently developing agents that detect reactive oxygen species and enzymes secreted in the pathologic microenvironments of inflammation and cancer.

Job description: The technician will be primarily responsible for physicochemical characterization of new transition metal complexes using paramagnetic NMR, cyclic voltammetry, pH-potentiometry, UV-visible spectroscopy, HPLC and ICP-MS. There are also opportunities to engage in chemical synthesis, bioanalytical chemistry, molecular biology, and/or MR imaging studies, depending on the interests and career goals of the technician.

Ideal candidate: We are seeking a recent college graduate with a bachelor's degree in chemistry. This position is ideal for an ambitious chemist with plans to attend graduate or medical school within 2-3 years.

Research environment: The Martinos Center for Biomedical Imaging is a world's premier institute devoted to the development and advancement of cutting-edge biomedical imaging technologies. The center is home to state of the art MRI, PET, and optical imaging suites and has excellent synthetic and analytical chemistry facilities dedicated for any related chemical research. The Martinos Center fosters a truly unique environment for interdisciplinary collaboration, mentorship and career development.

Molecular imaging research at the Martinos Center spans the invention of novel contrast agents or imaging probes, validation of these agents in disease state models, and translation to human clinical trials. Academic research in the Gale Group is presently focused on discovery (*J. Am. Chem. Soc.* **2019**, *141*, 5916-5925, *Inorg. Chem.* **2020**, *59*, 17712-17721, *Angew. Chem. Int. Ed.* **2022**, *61*, e202114019) and pre-clinical development (*Investigative Radiology* **2019**; *54*, 697-703, *Investigative Radiology* **2021**, *56*, 261-270).

How to apply: Qualified applicants should send a CV and contact information for two references to: emgale@mgh.harvard.edu.