



Icahn  
School of  
Medicine at  
Mount  
Sinai

*BioMedical Engineering  
and Imaging Institute*

## Postdoctoral Chemist for Precision Medicine Research

Employer: Icahn School of Medicine at Mount Sinai  
Research lab: Biomedical Engineering and Imaging Institute  
PIs: Zahi A. Fayad, Abraham J. P. Teunissen  
Location: New York City, NY, USA

We seek a highly motivated, creative, and innovative postdoctoral chemist to join our precision medicine lab at the Icahn School of Medicine at Mount Sinai in New York City.

### **Background:**

Our lab leverages a combination of synthetic- and radiochemistry to develop novel nanotherapeutics for innate immunotherapy as well as nuclear imaging probes to monitor their *in vivo* efficacy. These compounds are employed to study and treat cardiovascular disease, cancer, and organ transplant rejection in animals ranging from small rodents to non-human primates. Our program is part of Mount Sinai's Biomedical Engineering and Molecular Imaging Institute (<https://bmeisinai.org>) facilitating multidisciplinary research and clinical translation. We also formally collaborate with investigators at New York University, Massachusetts General Hospital, and Memorial Sloan Kettering Cancer Center.

### **Tasks and responsibilities:**

- Develop and employ novel nanomaterials for immunotherapy.
- Perform radiosyntheses to develop novel immuno-PET imaging probes.
- Analyze these compounds by a broad variety of analytical techniques.
- Share your results through scientific publications and oral presentations.
- Be part of a highly motivated multidisciplinary team consisting of chemists, immunologists, medical doctors and *in vivo* imaging specialists.

### **Requirements:**

- A PhD in organic chemistry or a comparable discipline.
- Profound experience in common analytical techniques (HPLC, NMR, DLS, TEM, UV-Vis).
- Excellent communication and writing skills in the English language.
- You are a team player and excited to collaborate with others.
- Experience in nanomedicine and immunology is desirable.

### **Application procedure:**

Interested candidates can apply by email to [bram.teunissen@mssm.edu](mailto:bram.teunissen@mssm.edu).

The following documents are required:

- A cover letter and curriculum vitae.
- Two recommendation letters.

Affordable housing, an excellent health plan, and multiple other benefits are included in the position.