

## Post-Doctoral Research Fellow/Proton Fellow New York Proton Center

### Details

**Posted:** 11-Aug-22

**Location:** New York, New York

**Type:** Training Positions

**Required Education:** Doctorate

**Sector:**

Free Standing Clinic

**Preferred Education:**

Doctorate

**Additional Information:**

3 openings available.

**Internal Number:** 7090

Located in Manhattan, The New York Proton Center (NYPC) is one of the most unique and respected clinical partnerships in the world of proton therapy. The collaboration between Memorial Sloan Kettering Cancer Center, Montefiore Medical Center, and Mount Sinai Health System brings state-of-the-art proton therapy treatment to the patients of New York and the surrounding areas. The Consortium is managed by ProHEALTH Medical Management, LLC.

Our team at NYPC is comprised of highly motivated, passionate, professional, and engaged individuals working together as a dynamic team to deliver an exceptional level of patient care, providing the most advanced proton therapy technology. We offer our employees a competitive compensation and benefits package with flexibility for growth and career advancement.

If you meet the criteria and would like to be a part of our collaborative, innovative, and patient-focused team, please apply with a cover letter and copy of your resume, or CV, to the current opportunity listed below.

**Position Summary:**

The Post-Doctoral Research Fellow (PDRF) will design and conduct research within a specific field while receiving advanced training from a designated Principal Investigator to enhance professional skills and research independence needed for pursuing a professional career in Medical Physics. The ideal candidate will work with the Principle Investigator to develop new ideas, design and evaluate experiments, process and analyze data as well as prepare scientific manuscripts for publications. The initial appointment is for one year and renewal is expected upon the PDRF's performance.

### **Duties and Responsibilities:**

- Participate in the proton FLASH therapy projects, support the cell and small animal Flash experiments, grants, and coming clinical trials
- support radiobiology-guided therapy programs and develop criteria to guide the new clinical workflow
- Participate in various clinical projects in proton planning, treatment evaluation, device/tool development, and new clinical protocol implementations
- Support adaptive therapy programs and develop criteria to guide the adaptive clinical workflow
- Comply with all New York Proton Center policies related to Privacy Rules established under the Health Information Privacy and Portability Act of 1996 (HIPAA)
- Other clinical and research supports as needed

### **Qualifications:**

- Ph.D. degree in Physics, Engineering, Computer Science or related fields
- Strong programming skills with MATLAB and Python; scripting skills in Eclipse preferred
- Experiences with Eclipse API scripting (C#), medical images analysis, and processing
- Knowledge of Monte Carlo simulation for proton therapy
- Must possess strong technical problem-solving skills
- Strong oral and written communication skills

*The New York Proton Center (NYPC) strives to maintain a workplace that accepts and appreciates the differences among our employees. The company will not discriminate against any applicant or employee based on age, race, gender, color, religion, national origin, ancestry, disability, marital status, covered veteran status, sexual orientation, gender identity and/or expression, genetic information, status with respect to public assistance or any other characteristic protected by state, federal, or local law.*



### **About New York Proton Center**

The New York Proton Center (NYPC) provides the most advanced pencil beam scanning proton therapy with the capability of intensity modulated proton therapy and onboard cone beam CT imaging system- designed to treat tumors with pinpoint precision. NYPC utilizes the Varian ProBEAM

Proton Therapy System containing four treatment rooms (three isocentric gantries and one fixed beam) and one research room. NYPC is also equipped with two Siemens dual-energy CT scanners, Siemens PET/CT scanner, Siemens 1.5 Tesla MRI scanner. The New York Proton Center (NYPC) strives to maintain a workplace that accepts and appreciates the differences among our employees. The company will not discriminate against any applicant or employee based on age, race, gender, color, religion, national origin, ancestry, disability, marital status, covered veteran status, sexual orientation, gender identity and/or expression, genetic information, status with respect to public assistance or any other characteristic protected by state, federal, or local law.

<https://careers.aapm.org/jobs/17269987/post-doctoral-research-fellow-proton-fellow>