

Associate Researcher in Applied Physics

RadiaBeam is seeking an early-career physicist with a strong scientific background in electromagnetics and the ability to conduct research in novel areas of modern physics. The particular areas of interest include but not limited to THz radiation, meta-materials, quantum computing and accelerator physics.

The successful applicant will need to demonstrate strong knowledge in related fields, the ability to perform research with limited supervision, and the ability to perform hands-on experiments. In addition to research projects, the employee will participate in activities related to commercial projects, such as simulations, measurements and commissioning. The job is a full-time regular appointment, starting ASAP.

The applicant must be authorized to work in the United States. Foreign candidates with extraordinary abilities, eligible for a J-1 or O-1 visa, will also be considered. This position requires relocation to Santa Monica, CA. The company will partially reimburse relocation expenses, with details to be discussed when an offer has been made.

RadiaBeam Technologies is a high-tech R&D and manufacturing company with headquarters in Santa Monica, CA. We develop particle accelerators and accelerator-related instrumentation for security, industrial, medical and research applications. Our staff currently consists of approximately 50 scientists, engineers, technicians and machinists. We're a stimulating company to work for, with interesting people, a laid-back culture, good work-life harmony, competitive compensation and excellent benefits.

Job duties will include:

- Perform the full cycle of research work from literature survey to prototype development and experimentation on the particular topic, defined by the supervisor, which may include topics that are outside the scope of your current expertise
- Investigate funding opportunities and suggest potential new topics
- Work as part of a dynamic team to build new scientific instruments
- Collaborate with national and international laboratories to plan and execute experiments
- Write and review proposals, final reports and technical papers
- Assist with the professional development of junior engineers / technicians

Requirements:

- PhD in Physics or Engineering +3 years relevant work. Postdoctoral experience is an advantage
- Knowledge of modern electrodynamics and applications
- Problem solving with the ability to come up with innovative solutions
- Ability to perform research in new areas of physics
- Excellent manual dexterity and hardware assembly skills
- Excellent oral and written communication skills
- Expertise at two or more the following skill sets:
 - Electromagnetic and finite-elements simulations (e.g. CST, HFSS, COMSOL, Maxwell)

- Radio-frequency technologies, including microwaves and sub-THz (antennas, generators, passive devices, solid-state electronics, high-power RF, low-level RF etc.)
- Quantum computers
- High power, short pulse laser systems
- Non-linear optics and metamaterials
- Accelerator and beam physics
- Superconductivity and cryogenics
- Electronics
- Magnet design

Priority will be given to applicant that can immediately contribute to our ongoing projects.

RadiaBeam offers competitive health and dental benefits, generous paid and sick leave, retirement plan with contribution-matching, and a dynamic, flexible workplace with extensive opportunity for professional advancement. RadiaBeam is an equal opportunity employer. The salary will depend on the applicant's qualifications, but is expected to be in the range of \$70,000 – 90,000 per year.

Interested applicants should send an email with a resume, list of publications and a cover letter in PDF format to jobs@radiabeam.com with "Research Associate – Applied Physics " in the subject line. No calls please.