As part of a long-term commitment to expand the scope both of biological physics research and of imaging/medical/industrial physics at CWRU, the Case Western Reserve University Department of Physics seeks candidates for two tenure-track positions: an Assistant Professor position in the area of experimental biophysics, and also an Assistant Professor position in imaging physics, with an emphasis on medical and industrial applications.

The first search is in experimental biophysics, and builds on thriving collaborations within the department in theoretical biophysics, experimental soft condensed matter (biosensing, organic materials), and medical physics (MRI and magnetic nanoparticle imaging). The successful candidate will complement these initiatives, and take advantage of the numerous interdisciplinary opportunities available both on campus and in the extensive local biomedical research environment (the Case Western Reserve University School of Medicine, the Cleveland Clinic, University Hospitals and a variety of startups). We encourage applications from candidates working at any level of biological organization, from single molecules to whole populations. Possible topics include (but are not limited to): protein dynamics and interactions, cytoskeletal mechanics, chromatin structure, cell adhesion and tissue organization, epigenetics, systems biology, embryonic development, neurophysics, and collective behavior at the cellular/organismal scale.

The second search is in imaging physics, and builds on a long and rich history of international collaborations with the medical device industry and interdisciplinary academic bioscience departments in MRI. We encourage applications from candidates working in any of a broad variety of topics in imaging/medical/industrial physics, including signal processing, magnetic systems modeling and optimization, and industrial and medical sensor innovation. Candidates with experience in imaging modalities other than MRI, such as CT, ultrasound, PET, and optical systems may also be considered. Therapeutic as well as diagnostic medical physics is relevant to this position in view of the growing industry of hybrid systems, such as image-guided radiotherapy, and of possible teaching contributions to medical physics degree programs.

The successful candidates in each area will conduct vigorous programs of innovative and funded research, supervising graduate students and providing research opportunities for undergraduates. The average teaching load is one course per semester. Candidates must demonstrate the skills and interest to be effective teachers. Qualifications for the positions include a Ph.D. or equivalent in physics or a closely related discipline, as well as a record of outstanding scholarly research that may include patent applications. Information about the department, and all current faculty searches, can be found at http://www.phys.case.edu.

Reviews of applications will begin on December 1, 2017 and will continue until the positions are filled. Applicants should submit a letter of application, CV, and statements of research plans and teaching as a single pdf file to biophys2017@phys.case.edu for the experimental biophysics position, and to medphys2017@phys.case.edu for the imaging physics position, and arrange for three letters of recommendation to be sent, respectively, to those addresses. Please include the candidate’s last name in all attachments. If electronic submission is not possible, paper applications may be submitted to either “BIOPHYS Search” or “MEDPHYS Search”, as appropriate, Department of Physics, Case Western Reserve University, Cleveland, Ohio 44106-7079 USA. Questions about the biophysics search may be directed to Prof. Michael Hinczewski at mxh605@case.edu. Questions about the imaging search may be directed to Prof. Michael Martens at Michael.martens@case.edu or Prof. Robert Brown at...
In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply. Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants requiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Inclusion, Diversity and Equal Opportunity at 216-368-8877 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.