Abstract:

The Exercise Physiology Laboratory invites applications from exceptional research-oriented exercise physiologists and biomechanists who wish to participate in a postdoctoral fellowship program that supports:

- assessment and maintenance of astronaut health and performance capabilities onboard the International Space Station
- evaluation and validation of exercise countermeasures to mitigate the effects of long-term spaceflight

The goal of our postdoctoral fellowship program is to expose young scientists to research questions involving the development, implementation, and evaluation of appropriate, effective, and efficient exercise countermeasures to maintain and enhance the health and performance of crewmembers during all phases of mission operations and training.

Anticipated research may include aerobic capacity testing, strength testing and development, biomechanical evaluations, exercise prescriptions, monitoring of physiological responses, and evaluation of new exercise devices. Applicants must have a doctoral degree with a strong background in integrative, applied, and/or human exercise physiology and/or human exercise biomechanics. The applicant must be familiar with exercise conditioning program design, exercise performance testing, laboratory skills, statistical analysis, computer programs and applications, and exhibit experience in writing and presenting research findings.