

## **Postdoctoral Researcher Position in Biomedical Applications of Magnetic Nanoparticles**

### **Job description/Research Training and Responsibilities:**

A postdoc position is available in the laboratory of Dr. Carlos Rinaldi (<http://www.bme.ufl.edu/labs/rinaldi/>) in the Department of Chemical Engineering at the University of Florida. This position is for an initial one-year appointment, and has the potential to be renewed for additional years based on performance and funding availability. *Dr. Rinaldi has a long history of training professionals who have entered and succeeded in academic positions.*

**Dr. Rinaldi's research focuses on advancing the understanding and applications of suspensions of magnetic particles, with emphasis on biomedical applications of magnetic nanoparticles.** Work in Dr. Rinaldi's lab is interdisciplinary and spans theory and simulations, nanoparticle synthesis and modification, characterization, and applications development. Dr. Rinaldi's laboratory is outfitted with extensive instrumentation for characterizing the physicochemical and magnetic properties of nanoparticles, as well as *in vitro* and *in vivo* testing. This is complemented by state-of-the-art research facilities at UF. Candidates should have background training and experience in **synthesis, characterization, and biomedical applications of magnetic nanoparticles.**

The successful candidate will contribute to several ongoing projects aimed at developing magnetic nanoparticles for biomedical applications in imaging, tissue engineering, drug delivery, and thermal therapy. The position will provide opportunities to gain experience in mentoring students performing laboratory research, managing research teams, disseminating research results, and writing proposals to secure research funding.

**Attributes of UF and Gainesville:** The University of Florida is one of only a few comprehensive universities, having medical, veterinary, dental, nursing, public health, and engineering disciplines all co-localized on the same, contiguous campus. UF is a highly collaborative environment that provides researchers with many opportunities for learning (e.g., top seminar programs, excellent core research facilities) and research collaborations. Gainesville is located in the northern region of Florida, within 1-1.5 hours of each coast, and just 1.5-2 hours to Orlando and Tampa. It is a small to medium-sized city with a low cost of living, excellent public and private schools, and southern hospitality. While Gainesville is widely recognized as the home of the Gators, it is quickly becoming known as a center for innovation and a place with a lifestyle that's comfortable for families, yet attractive for young professionals. In 2013 the financial website NerdWallet deemed Gainesville the #1 fastest growing US city (<http://www.eng.ufl.edu/careers/why-gainesville>).

### **Minimum Qualifications:**

Applicants must have a Ph.D. in a related engineering/science area (e.g., Chemical Engineering, Biomedical Engineering, Materials Science and Engineering, Chemistry, Physics). Research experience at the doctoral level in the synthesis, modification, and characterization of inorganic nanoparticles for biomedical applications is highly desired. Applicants must have experience with manuscript preparation and submission. Experience with grant writing and managing students is not required, but is desired.

**Salary:** \$47,500K

**Days to post:** Position will be open until filled.

### **Special Instructions to applicants:**

In addition to applying online to Careers at UF (<http://explore.jobs.ufl.edu/cw/en-us/job/503018/post-doc-associate>), Applicants should send a CV, a brief statement of background and goals, and contact information of two reference letters to Dr. Rinaldi at [carlos.rinaldi@bme.ufl.edu](mailto:carlos.rinaldi@bme.ufl.edu). Review of applications will start immediately and continue until the position is filled.