



Marilyn Rampersad Mackiewicz, Ph.D.

Assistant Professor

Department of Chemistry

Oregon State University

153 Gilbert Hall, Room 341

Corvallis, Oregon 97331

[Laboratory of Nanostructured Materials](#)

Description:

A post-doctoral scholar Position in Nanomedicine and Nanomaterials Development focusing on designing and developing imaging and drug delivery of materials, their nanoparticle-biological interactions, and toxicity.

The Mackiewicz Lab (<http://sites.science.oregonstate.edu/~mackiewm/>) is looking for highly motivated individuals to immediately join our team in the Chemistry Department at Oregon State University (<https://chemistry.oregonstate.edu/>) to develop nanomaterials-solutions to overcome challenges in drug delivery, optical imaging, and cell labeling for disease treatment macular degeneration, glaucoma, and cancer. In addition, this individual will be able to work across ad chemistry biology interface with collaborative partners at multiple institutions in Oregon. Our research includes synthesizing and characterizing nanomaterials, mammalian cell culture, nanoparticle-biological interactions, and nanotoxicology. Candidates with experience in nanomaterials synthesis and cell culture techniques and those who want to pursue research areas of their interests by writing grant applications or fellowships opportunities are encouraged to apply.

Position Duties:

70% Research:

The post-doctoral scholar will conduct the chemical synthesis and characterization of bioconjugated nanomaterials with techniques such as atomic force microscopy, dynamic light scattering, UV-Vis-NIR spectroscopy, optical coherence tomography imaging, transmission electron microscopy, scanning electron microscopy, NMR, and reflectance spectroscopy. They will also be expected to perform nanoparticle-cell studies to evaluate the mechanism of uptake and impact on cell function and health utilizing a variety of cell culture and imaging techniques such as confocal and electron microscopy. In addition, the post-doctoral school must have the expertise to perform cell studies and bioimaging using fluorescence microscopy and EM.

20% Reports, Manuscripts, and Proposal Preparation:

The incumbent will maintain detailed records of data obtained in the laboratory and prepare reports manuscripts, and aid in proposal preparation. The postdoctoral scholar should be able to read, write, and analyze data for presentation to other group members.

10% Laboratory Maintenance and Mentoring:

The postdoc will contribute to the overall maintenance and cleanliness of the lab. The position requires this lab member to also assist in maintaining laboratory equipment and oversee the routine ordering of supplies as determined necessary by the principal investigator. They will also be responsible for mentoring undergraduate and graduate students in the profession.

Qualifications:

The ideal candidate will have a Ph.D. in bioengineering, chemistry, biochemistry, materials science, or a related discipline. **Preference will be given to applicants with experience and knowledge in two or more of these areas:**

- Inorganic and nanomaterials synthesis
- Bioconjugation techniques
- Mammalian cell culture
- Molecular biology methods
- Optical and electron microscopy expertise



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- Nanoparticle-biological interaction studies
- Ability to work in diverse and interdisciplinary teams.

The postdoctoral researcher will develop and implement research ideas, communicate, and coordinate with collaborators, write manuscripts, and present results at conferences/workshops. Therefore, candidates must demonstrate strong oral and written scientific communication skills for publications and grant writing opportunities. They must also be willing to mentor a diverse team of graduate and undergraduate students. The initial appointment period is one year, with the chance of renewal upon satisfactory performance.

Application Process:

Qualified applicants should email their application documents as a single PDF file to Dr. Marilyn Mackiewicz (Marilyn.mackiewicz@oregonstate.edu). **Please include a subject header in the Post-doctoral Scholar Position OSU.** The requested application submission must include the following:

1. Cover letter and research statement (a brief description of research experience, writing and publication experience, career goals/expectations, future research plans, and efforts to work with graduate and undergraduate students)
2. Full Curriculum Vitae
3. List of references (minimum of three referees with names and contact information)
4. Copies of at least 1-2 first-author publications (publications must demonstrate relevant expertise)

Applications with missing items will not be reviewed.

Full Consideration Date: Open until filled.

OSU values a diverse and culturally competent workforce and commits to inclusive excellence by advancing equity and diversity in all we do. Individuals with diverse backgrounds and those who promote diversity, and a culture of inclusion are encouraged to apply. To request a reasonable accommodation, contact the Affirmative Action and Equal Opportunity Access (EOA) at 541-737-3556 or equal.opportunity@oregonstate.edu