

**Research Scientist, ILPB
University at Buffalo**

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Posted May 29, 2025, set to expire Jun. 11, 2025

Job Title	Research Scientist, ILPB
Department	Institute for Lasers Photonics and Biophotonics
Institution	University at Buffalo Buffalo, New York
Date Posted	May 29, 2025
Application Deadline	06/11/2025
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Physics - General Biomedical Sciences Biology - General
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Job Description

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Research Scientist, ILPB

Position Information

Position Title: Research Scientist, ILPB

Department: Institute for Lasers Photonics and Biophotonics

Posting Link: <https://www.ubjobs.buffalo.edu/postings/57247>

Job Type:

Research Scientist, ILPB
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Part-Time

Posting Detail Information

Position Summary

The [Institute for Lasers Photonics and Biophotonics](#) at the University at Buffalo is seeking a **Research Scientist**.

The proposed research project focuses on the synthesis of certain tumor-avid photosensitizers and multifunctional nanoparticles for imaging (fluorescence and photoacoustic, MRI or PET) and therapy [photodynamic therapy (PDT) and sonodynamic therapy (SDT)] of various cancer types. These nanoparticles with and without photosensitizers require multi-step synthesis, and will be characterized by NMR, IR and DLS analytical tools. The biological efficacy of these products will be evaluated in various cancer cell types and small animals (mice & rats) implanted with desired tumors. The selected agent(s) will also be investigated for tumor uptake by fluorescence, biodistribution, organ toxicity at various time points and doses. It is a multidisciplinary project with translational value and requires smooth coordination in designing and planning the *in vitro* and *in vivo* experiments.

Learn more:

- Our [benefits](#), where we prioritize your well-being and success to enhance every aspect of your life.
- Being a part of the [University at Buffalo community](#).

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicants race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.

Minimum Qualifications

- Ph.D. in a related field

Preferred Qualifications

- The candidate should be either a PhD or MD with significant experience in Biology.
- Must have the basic knowledge of PDT and SDT approaches in cancer treatment and ability to relate the knowledge in various types of cancer.

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- Experience in implanting tumors in mice as well as PDX models.
- Experience in determining the in vivo tumor uptake/bio-distribution of the compounds by fluorescence and photoacoustic imaging.
- The candidate should be well-known with handling lasers and ultrasound instruments at variable doses.
- Highly motivated and exceptionally organized team player with good communication skills.
- Strong written and verbal communication skills in English.
- Have the knowledge of handling light sensitive compounds.

Salary Range

\$35,000

Special Instructions Summary

Is a background check required for this posting?

No

Contact Information

Contact's Name: Timothy Cryan

Contact's Pronouns:

Contact's Title: Executive Officer

Contact's Email: tmcryan@buffalo.edu

Contact's Phone: 716-645-4159

Posting Dates

Posted: 05/28/2025

Deadline for Applicants: 06/11/2025

Date to be filled: 06/12/2025

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

N/A

University at Buffalo

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