

## Postdoctoral Opportunity at Naval Research Laboratory: Microbiology and Synthetic Biology

The Center for Bio/Molecular Science and Engineering at the Naval Research Laboratory in Washington DC invites applications for a Postdoctoral Research Fellowship in microbiology.

By participating DoD and NASA funded research programs, the successful candidate will be responsible for (1) investigating microorganisms (particularly fungi) responsive and adaptive to radiation in nature and the space environment, and identifying the responding biomarkers with genetic, and -omic (transcriptomic, proteomic and metabolomic) methods; (2) developing biomanufacturing platforms to produce novel biomaterials using synthetic biology approaches. The candidate will have 2-3 years of financial support, access to state-of-the-art laboratory facilities and an opportunity for permanent employment based on performance and funding.

The candidate must have acquired a Ph.D. in microbiology, molecular biology, cell biology or a related field within the past five years and have demonstrated experience with fungal genetics/development and molecular biology techniques. Previous experience with omics, bioinformatics and analytical chemistry is desirable but not required. The candidate must be well-organized, self-motivated and possess excellent written and oral communication skills.

This Postdoctoral Research Fellowship is available through a competitive process with the American Society for Engineering Education Program or National Research Council Research Association Program and will offer a salary of \$86,300 per annum. U.S. residency or citizenship is required. Qualified candidates should send complete applications (curriculum vitae, description of research accomplishments and interests, contact information of three references) via e-mail to Dr. Zheng Wang ([zheng.wang@nrl.navy.mil](mailto:zheng.wang@nrl.navy.mil)). The Naval Research Laboratory is an Equal Opportunity Employer.

### References:

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- Schultzhaus, Z. S., Schultzhaus, J. N., Romsdahl, J., Chen, A., Hervey IV, W. J., Leary, D. H., & Wang, Z. (2020). Proteomics Reveals Distinct Changes Associated with Increased Gamma Radiation Resistance in the Black Yeast *Exophiala dermatitidis*. *Genes*, 11(10), 1128.
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- Wang, Z., Tschirhart, T., Schultzhaus, Z., Kelly, E.E., Chen, A., Oh, E., Nag, O., Glaser, E.R., Kim, E., and Lloyd, P.F. (2020). Melanin Produced by the Fast-Growing Marine Bacterium *Vibrio natriegens* through Heterologous Biosynthesis: Characterization and Application. *Appl Environ Microb* 86. e02749.