NSF Research Experience for Undergraduates (REU) in the Evolution of Biodiversity across the Tree of Life

Applications close April 22, 2016

We are looking for 8 undergraduate students to participate in hands-on research in biodiversity science and receive training in cutting-edge techniques and analysis in evolutionary biology for 10 weeks during the summers of 2016-2018.

Students will learn research techniques that include DNA sequencing and computational analysis of genetic and genomic data, morphological measurements and phylogenetic analysis, and microbiology and next-generation microbial sequencing. Scientific projects to be conducted by the students include the evolution of morphological variation in extinct therapsids, tropical bird biogeography, population genetics of sharks, influence of disease on bird genetic diversity in urban environments, quantitative analysis of meteorites, the influence of hydrostatic pressure on morphological diversity in octopuses, and co-diversification of ants and their gut bacterial communities. In addition students will receive career mentoring in a diversity of STEM fields, gain experiences in public outreach and science communication, receive training in ethics/responsible conduct of research, and participate in a diversity workshop to help overcome bias in science.

https://www.fieldmuseum.org/reu
https://www.fieldmuseum.org/2016-reu-program-offerings

Students will be provided a stipend, dormitory housing, and assistance with travel costs.

Participants must be U.S. citizens or permanent residents, and an undergraduate during the entire period. We especially encourage students from groups traditionally underrepresented in science to apply.

To apply, please send complete the online application:
https://www.fieldmuseum.org/2016-reu-program-offerings

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Please direct any questions to Jonathan Hense (jhense@fieldmuseum.org).