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Reis' research program centers on the development of biomanufacturing and biorefinery systems that convert underutilized carbon streams into value-added products. Current interests include methanotrophic C1 bioconversion, lignin valorization and biocatalysis, biofuels, and the techno-economic and life-cycle assessment (TEA/LCA) of integrated biorefinery designs. He Reis is also actively engaged in engineering education research, with a focus on the Engineering for One Planet (EOP) initiative, funded by The Lemelson Foundation.

He teaches courses in separation processes, mass transfer, and process design, and mentors a undergraduate and graduate researchers in his laboratory.