

National Science Foundation CAREER Awardee: Jason Bates

Jason Bates, an assistant professor of chemical engineering at the University of Virginia School of Engineering and Applied Science, has won a prestigious National Science Foundation CAREER Award.

He is using the award to investigate an alternative that could convert the nitrate into valuable chemical products with renewably sourced electricity. The project could improve nitrate conversion, leading to new water treatment technologies. For example, a farmer could convert nitrate from field runoff back to ammonia using an on-site electrocatalytic device powered by solar or wind energy.

Within the Center for Bioenergy Innovation, Jason works towards developing a catalyst that can convert wet ethanol to a hydrocarbon that satisfies the criteria for an aviation fuel blendstock.

CAREER: The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization.

(University of Virginia News Release: [NSF CAREER Award](#))



**Jason Bates,
Assistant Professor**

