

Post-doctoral Research Associate
Purdue University Northwest

Direct Link: <https://www.AcademicKeys.com/r?job=144665>

Downloaded On: Oct. 26, 2020 11:24am

Posted Jul. 16, 2020, set to expire Nov. 15, 2020

Job Title Post-doctoral Research Associate
Department Mechanical and Civil Engineering
Institution Purdue University Northwest
Hammond, Indiana

Date Posted Jul. 16, 2020

Application Deadline Open until filled
Position Start Date August 2020

Job Categories Post-Doc

Academic Field(s) Mechanical Engineering
Chemical/Petroleum
Aerospace/Aeronautical/Astronautics
Engineering - Other

Job Website <https://careers.purdue.edu/PNW/job/Hammond-and-Westville-Post-Doc-Research-Associate-IN-46320/660683300/>

Apply Online Here <https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=10748&company=purdueuniv>

Apply By Email

Post-doctoral Research Associate Purdue University Northwest

Direct Link: <https://www.AcademicKeys.com/r?job=144665>

Downloaded On: Oct. 26, 2020 11:24am

Posted Jul. 16, 2020, set to expire Nov. 15, 2020

Job Description

Purdue University Northwest, located in Hammond and Westville, Indiana is inviting applications for a Post-doctoral research associate position in engineering. The successful candidate will work on a project to develop low-order physics based model of the reactor dynamics to develop a model-based feedback controller for the reactor. The addition of a feed forward control component to improve the performance against disturbances in the solar input will also be investigated. The determination of the controller parameters, such as proportional coefficient and derivative coefficient will follow standard tuning rules, and the closed-Loop simulation of the system will be used to test the controller performance in tracking the desired set-points and rejecting process disturbances. The performance of the controlled system relative to an uncontrolled one will be evaluated via computer simulations for a range of typical meteorological conditions. The control model will also be tested and calibrated with the bench scale Solar Fuel reduction and oxidation reactors.

Education

Ph.D. in Mechanical or Chemical or Aerospace Engineering

Application Process

Review of applications will begin on July 20, 2020 and will continue until the position is filled. This position begins August 1, 2020 and employment will be contingent on a successful background check. Interested applicants should submit electronically a letter of application, curriculum vita, statement of purpose, and a list of professional references. Questions may be sent to Search Chair at nozalp@pnw.edu

Additional Information

Visit our website <https://www.pnw.edu/> for additional information about the University. For information regarding our excellent benefits package, visit <https://www.pnw.edu/human-resources/benefits/>

EEO/AA Policy

Purdue University Northwest is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.

Post-doctoral Research Associate
Purdue University Northwest

Direct Link: <https://www.AcademicKeys.com/r?job=144665>

Downloaded On: Oct. 26, 2020 11:24am

Posted Jul. 16, 2020, set to expire Nov. 15, 2020

Contact Information

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

Contact Michelle Mack
School of Engineering
Purdue University Northwest
2200 169th St.
Pott 121
Hammond, IN 46323

Phone Number 219-989-3218

Contact E-mail mmmack@pnw.edu