

## **Funded MS Project is Available**

Validity of this circular: from May/2016 to August/2016.

Graduate (MS) Student Project: Dr Hoque is looking for a motivated, and hard-working graduate student to work on a smaller NASA project titled, “Data Analysis and Decision Support Using Advanced Text Analytics and Machine Learning”.

Selection Criteria: Better analytic ability and programming skill will be needed. Graduate student who wants to consider this project as his/her master thesis and either completed or enrolled in CSCI-6635 (pattern recognition) or, have done equivalent machine learning courses and is not graduating before Spring 2017, will be given higher preference.

Payment: The project will pay the student about \$7,000.00 (seven thousand dollar).

Project Period: The span of the project is from May/2016 to March/2017 – however, the workload period is approximately half of it.

Project Description: By manual processing, a team of experts identified 15 top-level categories that cover about 1500 patents held by NASA. The information about these patents is available online categorized into these 15 areas. However, higher precision and easier search are needed for effective dissemination of this major part of NASA’s IP portfolio. This project is to develop a set of automated tools that can assist NASA to manage and market portfolio of intellectual properties (IP), and enable easier discovery of relevant IP by users. This objective will be accomplished by completing a series of tasks including evaluating NASA’s current categories and improving the top-level configuration with proper categories, developing subcategories under each of the top-level categories which enhance users’ visual discovery of IP, automating the process of assigning patents to categories (possibly multiple classes), and generating tags for patents to provide fine-grained insight of portfolio details.

Guidance: full guidance to accomplish this project will be provided.

How to Apply: Interested student, please email Dr Hoque [[thoque@uno.edu](mailto:thoque@uno.edu)] your CV showing relevant credentials (GPA, programming experiences, analytic ability (if any), etc.) and mention the project title, “Data Analysis and Decision Support Using Advanced Text Analytics and Machine Learning” in your email.