

UMCP/UMES/MSU: Engineering/Education Researcher (Year-long) – engineering (stipend: \$11,680)

Additional Required Qualification: Engineering student (Junior or Senior)

In collaboration with University of Maryland College Park (UMCP), University of Maryland Eastern Shore (UMES) and Morgan State University (MSU), the Engineering Education Researcher intern has the opportunity to actively investigate NASA engineering content and its application in a vast range of science and engineering disciplines. Predominately, the three person intern team will focus on how NASA uses the engineering design process for mission success. Through research engagement with a NASA engineer(s) on an authentic NASA engineering project, the intern team will contribute to milestones/tasks related to a current engineering project. In addition, through this authentic learning experience, the intern team will receive mentorship from UMCP/UMES/MSU collaborative on how to translate NASA engineering content and application to active learning modules in support of an "Engineering for Us All" framework (a potential pre-cursor to an AP Engineering curriculum). The intern team will cover every aspect of the engineering design process and development: from conception through research and development and onto engineering design implementation. This is combined with all other requirements in engineering such as analysis, including product viability and justification from an economic stand point, prediction in total process variability and design considerations therein. This is a hybrid (e.g., in-person and on-line) yearlong internship project with an equivalency to 10 hours per week time commitment. The research internship is from August 27, 2018 - May 17, 2019. The intern team may be required to travel to a NASA facility (Goddard Space Flight Center and Wallops Flight Facility) and to one of the partnering colleges (UMCP, UMES, MSU). May include Saturday requirements.

UMCP/UMES/MSU: Engineering/Education Researcher (Year-long) - GRAD Education (stipend: \$14,400)

Additional Required Qualification: GRAD Education student (preferably in-service teacher enrolled in a graduate program)

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UMCP/UMES/MSU: Engineering/Education Researcher (Year-long) - UG Education (stipend: \$11,680)

Additional Required Qualification: Education student (Junior or Senior)

In collaboration with University of Maryland College Park (UMCP), University of Maryland Eastern Shore (UMES) and Morgan State University (MSU), the Engineering Education Researcher intern has the opportunity to actively investigate NASA engineering content and its application in a vast range of science and engineering disciplines. Predominately, the three person intern team will focus on how NASA uses the engineering design process for mission success. Through research engagement with a NASA engineer(s) on an authentic NASA engineering project, the intern team will contribute to milestones/tasks related to a current engineering project. In addition, through this authentic learning experience, the intern team will receive mentorship from UMCP/UMES/MSU collaborative on how to translate NASA engineering content and application to active learning modules in support of an "Engineering for Us All" framework (a potential pre-cursor to an AP Engineering curriculum). The intern team will cover every aspect of the engineering design process and development: from conception through research and development and onto engineering design implementation. This is combined with all other requirements in engineering such as analysis, including product viability and justification from an economic stand point, prediction in total process variability and design considerations therein. This is a hybrid (e.g., in-person and on-line) yearlong internship project with an equivalency to 10 hours per week time commitment. The research internship is from August 27, 2018 - May 17, 2019. The intern team may be required to travel to a NASA facility (Goddard Space Flight Center and Wallops Flight Facility) and to one of the partnering colleges (UMCP, UMES, MSU). May include Saturday requirements. Must conduct two "knowledge sharing" workshops in the Eastern Shore, Maryland school districts.