PhD Position in Engineering Management

The research group of Dr. Gabriel Nicolosi is currently inviting applications for a **fully funded** (tuition + stipend) PhD position in the Department of Engineering Management and Systems Engineering at the Missouri University of Science and Technology. Missouri S&T is in Rolla, MO, at the heart of the legendary Route 66, a one hour-drive from St. Louis.

About the Position

The PhD student will have the opportunity to work on research projects in the areas of **Operations Research, Optimal Control and Machine Learning** in the context of industrial, economical and management systems. While working toward obtaining his/her PhD, the selected candidate will be expected to conduct extensive literature reviews, design and run computational and numerical experiments, and report research findings in manuscripts that will be submitted to top-tier, peer-reviewed scientific journals and conference proceedings. The PhD student will also have the opportunity to work with and be mentored by other faculty at Missouri S&T, as well as participate in research efforts with scholars from other universities.

Requirements

- Fulfill department requirements, listed here.
- Comfort in writing research-grade computer code in Julia, MATLAB or Python.
- Minimal background in Operations Research, Mathematical Optimization, Numerical Computing, or any related area.
- Disposition to write documents/reports in LaTeX (on Overleaf).

Preferred Qualifications

- MSc in Industrial Engineering, Operations Research, Applied Math, Electrical Engineering or related area.
- Proficiency programming in Julia and/or Python.
- Basic theoretical and computational knowledge of Neural Networks, Fourier series, Nonlinear Optimization, Optimal Control and Differential Equations.
- Experience in writing academic research papers for submission to peer-reviewed journals/conferences, or a MSc thesis.
- GRE Scores (V + Q > 319).

How to Apply

Before officially applying to the program, candidates who fulfill the requirements above are encouraged to send via email to gabrielnicolosi "at" mst "dot" edu the following documents:

- Statement of purpose describing your research interests, experience, and future goals (two pages max).
- Detailed CV.
- A copy of academic transcripts.
- Sample publications/thesis work (if available).
- GRE and English proficiency test scores.