



## **Faculty Position in Data Science in Health Systems Engineering**

Department of Industrial & Manufacturing Engineering  
Florida A&M University - Florida State University College of Engineering  
Permanent, Tenure-Track Position

### **About the Department and College**

The Department of Industrial & Manufacturing Engineering (IME) at the Florida A&M University (FAMU)-Florida State University (FSU) College of Engineering invites applications from highly qualified individuals for a tenure-track faculty with research and teaching interests in data science and machine learning. Applicants should have a demonstrated experience in health systems related areas including, but not limited to, medical decision making, healthcare delivery, medical image data analysis, causal discovery/inference and precision/personalized medicine. We are seeking faculty candidates for an assistant professor position; however, exceptional candidates will be considered for higher ranks. The anticipated appointment time is Fall 2023.

The IME Department currently has 19 faculty, 34 PhD students, 106 MS students, 162 undergraduate students, and annual research expenditures exceeding \$3.3M. The two universities and outstanding research facilities in the affiliated research buildings/centers provide opportunities for collaboration with faculty in Computer Science, Scientific Computing, Statistics, High-Performance Materials Institute (HPMI), Florida Center for Advanced Aero-Propulsion (FCAAP), the Center for Advanced Power Systems (CAPS), National High Magnetic Field Laboratory (NHMFL), and FSU College of Medicine. Applicants for this position are expected to collaborate closely with Biomedical Engineering within the college, and College of Medicine outside the college.

The FAMU-FSU College of Engineering is the nexus of two major public universities, each with a distinct mission but focused on world-class engineering education and research. Created by the Florida Legislature in 1982, the joint institution is the college of engineering for both Florida A&M and Florida State universities. This unique combination of focus, resources and mission from our parent institutions has created on our campus a truly innovative atmosphere that leverages the benefits of the traditional HBCU model with the innovations of an R-1 public research university. After completing pre-requisites at their home institution, FAMU and FSU students learn, study and research together at our independent campus with joint-appointed faculty and staff. Students graduate from their enrolling university and from the FAMU-FSU College of Engineering. Both FAMU and FSU are part of the State University System of Florida and are accredited by the Southern Association of Colleges and Schools Commission on Colleges. Additionally, the college is fully accredited by ABET for its 12 degree areas across five engineering departments.



### Preferred and Required Qualifications

Candidates must possess an earned Ph.D. in industrial engineering, operations research, computer science, statistics, biomedical informatics, electrical engineering, or a closely related discipline, and demonstrate documented potential for outstanding research. Successful candidates must have a demonstrated track record of high-quality research as evidenced by high-impact publications and must exhibit strong potential or established record of external funding. Strong methodological background and research and teaching interests in data science, analytics, machine learning, statistics, optimization and simulation are preferred. Domains of particular interest are in applications of health systems engineering, however, candidates with strong backgrounds in data science with applications to other related areas are also considered.

### Responsibilities

Successful candidates are expected to develop research programs that are internationally recognized with significant and sustained funding, incorporate interdisciplinary collaboration with researchers across campus, and demonstrate a strong commitment to diversity and excellence in education. The successful candidate must also demonstrate excellence in teaching undergraduate and graduate courses and mentoring M.S. and Ph.D. students, and participate in service activities within the department, the university and the profession.

Potential applicants seeking more information are encouraged to visit our website at <https://www.eng.famu.fsu.edu/ime>.

Applicants should submit the following documents, combined into **one single PDF file**, to: [IME-DSHealthcare@eng.famu.fsu.edu](mailto:IME-DSHealthcare@eng.famu.fsu.edu)

- A cover letter
- A full curriculum vitae
- A 2-page research statement
- A 1-page teaching statement
- A 1-page diversity, equity, and inclusion statement
- No more than four selected publications
- Names and contact information of four potential references
- An Equal Employment Opportunity Survey for Faculty Applicants (<https://eng.famu.fsu.edu/sites/g/files/upcbnu1751/files/pdfs/FAMU-FSU-COE-EEOC-Form-for-Applicants.pdf>)



Applications will be reviewed beginning on **December 5, 2022**. Acceptance and review of application will continue until the position is filled. Any questions about the position should be directed to Dr. Arda Vanli, Search Committee Chair, at [oavanli@eng.famu.fsu.edu](mailto:oavanli@eng.famu.fsu.edu).

### **Criminal Background Check**

This position requires the successful completion of a criminal history background check. The background check will be conducted as authorized and in accordance with FSU Policy 4-OP-C-7-B11.

Florida A&M University and Florida State University are Equal Opportunity/Affirmative Action employers that encourage applications from minorities and women and comply with the American Disabilities Act. Both are public records agencies pursuant to Chapter 119, Florida Statutes.